

Technical Memorandum

Revised Work Plan

Operable Unit No. 7 — Present Landfill (IHSS 114) and Inactive Hazardous Waste Storage Area (IHSS 203)

Volume III—Appendices I–K

Draft Report

April 15, 1994

**U.S. Department of Energy
Rocky Flats Site
Golden, Colorado**

ADMIN RECORD

A-DU07-000228

NOTICE:

INCOMPLETE DOCUMENT

The following document appears to be missing pages. This document was distributed in an incomplete state, and the microform copy is representative of the paper copy. If replacement pages are distributed, they will be microfilmed and included in the Administrative Record file.

Appendix I

Water Balance Data

NOTICE:

It appears that Columns A and B are missing.
If replacement pages are distributed, they will
be microfilmed and included in the
Administrative Record file.

Column C - Pan Evaporation

**EG&G PRECIPITATION STATION IN WEST BUFFER ZONE
EVAPORATION RATE, OCTOBER 1991 THROUGH SEPTEMBER 1992**

TIME		READINGS (INCHES)			RAINFALL*	EVAPORATION		
DAY	HOUR	BEFORE	AFTER	DIFF.	DEPTH† (INCHES)	DEPTH‡ (INCHES)	TIME§ (DAYS)	RATE (IN/DAY)
10/25/90	1330	***	2.797	***	***	***	***	***
11/02/90	1300	1.800	3.652	1.00	0.12	1.12	8.0	0.14
11/16/90	1430	2.688	2.688	0.96	0.44	1.40	14.1	0.10
11/21/90	1230	2.603	4.409	0.69	0.00	0.69	4.9	0.14
12/17/90	1630	0.472	3.662	3.94	0.01	3.93	26.2	0.15
03/21/91	77	4.322	3.178	7.98	0.49	8.47	93.3	0.09
04/02/91	1450	1.262	1.989	1.92	0.15	2.07	12.6	0.16
04/09/91	1110	0.638	1.966	1.35	0.04	1.59	6.9	0.20
04/16/91	1300	2.143	2.825	-0.18	0.57	0.39	7.1	0.06
04/17/91	830	2.768	3.562	0.06	0.00	0.06	0.8	0.07
05/20/91	1411	1.723	3.331	1.84	3.06	4.90	33.2	0.15
06/03/91	1230	3.610	3.610	-0.28	2.97	2.69	13.9	0.19
06/23/91	1220	0.400	1.976	3.21	0.87	4.08	22.0	0.19
06/26/91	1400	0.075	1.949	1.00	0.00	1.00	1.1	0.93
06/27/91	750	1.730	3.301	0.22	0.01	0.23	0.7	0.31
06/28/91	1610	2.950	3.669	0.35	0.02	0.37	1.4	0.27
07/10/91	730	1.050	2.270	2.62	0.94	3.56	11.6	0.31
07/16/91	1000	1.000	3.220	1.27	0.43	1.70	6.1	0.28
07/25/91	1700	2.522	3.700	0.75	1.01	1.76	9.3	0.19
08/05/91	1730	2.370	2.370	1.33	1.01	2.34	11.0	0.21
08/09/91	1500	2.333	3.775	0.04	1.23	1.27	3.9	0.32
08/13/91	1300	3.389	3.389	0.39	0.14	0.53	3.9	0.13
08/28/91	900	1.000	3.711	2.39	0.22	2.61	14.8	0.18
09/06/91	77	0.125	2.394	3.59	0.04	3.63	8.6	0.42
09/10/91	1500	1.430	3.628	0.96	0.02	0.98	4.6	0.21
10/02/91	1115	0.750	2.940	2.88	0.80	3.68	21.8	0.17
10/08/91	930	2.120	4.290	0.82	0.12	0.94	5.9	0.16
11/05/91	1430	1.446	1.446	2.84	0.44	3.28	28.2	0.12
11/13/91	930	1.338	3.600	0.11	0.02	0.13	7.8	0.02
01/30/92	1418	1.682	3.380	1.92	1.58	3.50	78.2	0.04
02/20/92	715	1.020	3.124	2.36	0.00	2.36	20.7	0.11
03/14/92	1530	4.232	4.232	-1.11	2.49	1.38	23.3	0.06
04/14/92	900	1.408	1.408	2.82	1.08	3.90	30.7	0.13
04/16/92	850	1.632	3.190	-0.24	0.34	0.10	2.0	0.05
04/22/92	805	2.180	2.180	1.01	0.01	1.02	6.0	0.17
05/06/92	710	-0.900	1.000	3.08	0.00	3.08	14.0	0.22
05/08/92	650	0.875	2.722	0.13	0.00	0.13	2.0	0.06
05/20/92	1300	-0.200	1.702	2.92	0.06	2.98	12.3	0.24
05/27/92	2100	1.429	1.429	0.27	0.86	1.13	7.3	0.15
06/04/92	730	1.384	3.476	0.05	0.82	0.87	7.4	0.12
06/20/92	1800	1.206	1.206	2.27	1.39	3.66	16.4	0.22
07/08/92	745	-1.020	2.782	2.23	0.88	3.11	17.6	0.18
07/12/92	850	1.916	1.916	0.87	0.20	1.07	4.0	0.26
07/15/92	734	1.290	3.528	0.63	0.06	0.69	3.0	0.23
07/28/92	830	1.512	3.898	2.02	0.57	2.59	13.0	0.20
08/17/92	1250	0.001	1.934	3.90	0.44	4.34	20.2	0.21
08/21/92	1130	1.266	3.564	0.67	0.01	0.68	4.0	0.17

* Data are from the West Buffer Zone Meteorological Station.

NOTICE:

It appears that Columns D and E are missing.
If replacement pages are distributed, they will
be microfilmed and included in the
Administrative Record file.

Column F - Groundwater Inflow Under the Groundwater Intercept System

Volume of Groundwater Discharging to the East Landfill Pond Via the Groundwater Intercept System

Groundwater discharge through the perforated drain was estimated from the following analytical solution, based on the Dupuit-Forchheimer Assumptions:

$$^a Q = -Kh \frac{dh}{dx}$$

Where:

Q = Volumetric flow rate into drain

K = Hydraulic conductivity

h = Thickness of flow and head potential at the water table

dh/dx = Tangent of the angle the water table makes with the horizontal

Integration of the above equation results in the following equation:

$$Q = \frac{K}{2L} (h_x^2 - h_L^2)$$

Where:

h_x = Thickness of flow and head potential at a distance [L] from the drain

h_L = Thickness of flow and head potential at the drain

L = Distance between h_x and h_L

Assumptions:

1. Dupuit-Forchheimer Assumptions^a
2. Flow is nearly horizontal
3. Pressure head distribution along all vertical planes is hydrostatic
4. Isotropic and homogeneous
5. Steady-state flow conditions
6. Flow is normal to the drain

Volumetric flow calculations for December 1992 and March 1993

Month	K (ft/day)	h_i (ft)	h_L (ft)	L (ft)	Q (ft ³ /day/ft ²)	DL (ft)	Total Q Draining into the ELP (ft ³ /month)
December 1992	8.46×10^{-2}	9.71	2.24	87.5	4.32×10^{-2}	1,748	2,341
March 1993	8.46×10^{-2}	9.64	2.20	87.5	4.26×10^{-2}	1,748	2,308

Where:

DL = Length of the drain. The stretch of the drain where the north groundwater intercept system is failing was subtracted from the total length of the drain.

Total length of the drain = 2,192 ft

Length of the drain where the intercept system is failing = 444 ft

DL = 2,192 ft - 444 ft = 1,748 ft

ELP East Landfill Pond

ft feet

ft² square feet

ft³ cubic feet

**Columns F and G - Groundwater Inflow Under the Groundwater Intercept System/
Downward Seepage from the Landfill**

**Evaluation of Surficial Groundwater Inflow and Outflow Through the
Present Landfill, December 1992**

I. Groundwater Inflow

1. Inflow through the North Groundwater Intercept System (refer to Figure 2-40)

Thickness (feet)	Length (feet)	Lateral Gradient Well Pair 6187/6287	Hydraulic Conductivity (feet/day)	Darcy Velocity (feet/day)	Discharge (ft ³ / day)
2.5	38	0.01	8.46 x 10 ⁻²	8.46 x 10 ⁻⁴	0.08
5	113	0.01	8.46 x 10 ⁻²	8.46 x 10 ⁻⁴	0.48
7.5	62	0.01	8.46 x 10 ⁻²	8.46 x 10 ⁻⁴	0.39
10	69	0.01	8.46 x 10 ⁻²	8.46 x 10 ⁻⁴	0.58
12.5	62	0.01	8.46 x 10 ⁻²	8.46 x 10 ⁻⁴	0.65
15	100	0.01	8.46 x 10 ⁻²	8.46 x 10 ⁻⁴	1.27
				Total	3.45
Monthly Discharge = 3.45 ft ³ /day x 31 days = 107 ft ³					

2. Inflow/Recharge from Infiltration

Precipitation (feet)	Runoff (%)	Soil Evaporation Loss (%)	Recharge per Unit Area (ft ²)	Present Landfill Area (ft ²)	Recharge Rate (ft ³ /day)	Total Recharge (ft ³ /month)
0.036	20	75	1.8 x 10 ⁻³	714,375	41.484	1,286

II. Groundwater Outflow

1. Outflow Through the Western Boundary of the Present Landfill (refer to Figure 2-40)

Thickness (feet)	Length (feet)	Lateral Gradient Well Pair B206389/0786	Hydraulic Conductivity (feet/day)	Darcy Velocity (feet/day)	Discharge (ft ³ /day)
5	56	0.129	8.46 x 10 ⁻²	1.09 x 10 ⁻²	3.05
2.5	175	0.129	8.46 x 10 ⁻²	1.09 x 10 ⁻²	4.77
1.25 ¹	425	0.129	8.46 x 10 ⁻²	1.09 x 10 ⁻²	5.79
2.5	44	0.129	8.46 x 10 ⁻²	1.09 x 10 ⁻²	1.20
				Total	14.81
Monthly Discharge = 14.81 ft ³ /day x 31 days = 459 ft ³					

2. Outflow from Downward Seepage Through the Weathered Bedrock Contact

Hydraulic Conductivity Weathered Bedrock (feet/day)	Vertical Gradient (Geometric Mean)	Darcy Velocity (feet/day)	Present Landfill Area (ft ²)	Discharge (ft ³ /day)	Monthly Discharge (ft ³ /day)
1.24 x 10 ⁻³	0.054 ²	6.70 x 10 ⁻⁵	714,375	47.86	1,484

III. Volume of Groundwater-Leachate in Storage = 3,196,100 ft³ x 0.15³ = 479,415 ft³

IV. Mass Balance: Inflow - Outflow = Change in Storage

1. Total Groundwater Inflow = 1,393 ft³
2. Total Groundwater Outflow = 1,943 ft³
3. Change in Storage = -550 ft³

Where:

¹Area between 0' and 2.5' isopach lines was assumed to have an average saturated thickness of 1.25 feet.

²Vertical gradient (geometric mean) computed using February data. The December geometric mean value of 0.483 is probably not representative of actual site conditions because this value was computed from only two observations. The well hydrographs indicate that the December 1992 flow conditions are similar to the flow conditions during February 1993.

³Specific yield value (Sy) for sand and gravel (Walton 1970).

**Columns F and G - Groundwater Inflow Under the Groundwater Intercept System/
Downward Seepage from the Landfill**

**Evaluation of Surficial Groundwater Inflow and Outflow Through the
Present Landfill, March 1993**

I. Groundwater Inflow

1. Inflow through the North Groundwater Intercept System (refer to Figure 2-40)

Thickness (feet)	Length (feet)	Lateral Gradient Well Pair 6187/6287	Hydraulic Conductivity (feet/day)	Darcy Velocity (feet/day)	Discharge (ft ³ /day)
5.0	104	0.01	8.46×10^{-2}	8.46×10^{-4}	0.44
7.5	803	0.01	8.46×10^{-2}	8.46×10^{-4}	0.51
10	50	0.01	8.46×10^{-2}	8.46×10^{-4}	0.42
12.5	70	0.01	8.46×10^{-2}	8.46×10^{-4}	0.74
15	140	0.01	8.46×10^{-2}	8.46×10^{-4}	1.78
				Total	3.89
Monthly Discharge = $3.89 \text{ ft}^3/\text{day} \times 31 \text{ days} = 121 \text{ ft}^3$					

2. Inflow/Recharge from Infiltration

Precipitation (feet)	Runoff (%)	Soil Evaporation Loss (%)	Recharge per Unit Area (ft ²)	Present Landfill Area (ft ²)	Recharge Rate (ft ³ /day)	Total Recharge (ft ³ /month)
0.127	20	75	6.35×10^{-3}	714,375	146.33	4,536

II. Groundwater Outflow

1. Outflow Through the Western Boundary of the Present Landfill (refer to Figure 2-40)

Thickness (feet)	Length (feet)	Lateral Gradient Well Pair B206389/0786	Hydraulic Conductivity (feet/day)	Darcy Velocity (feet/day)	Discharge (ft ³ /day)
5	63	0.128	8.46 x 10 ⁻²	1.08 x 10 ⁻²	3.40
2.5	240	0.128	8.46 x 10 ⁻²	1.08 x 10 ⁻²	6.48
1.25 ¹	350	0.128	8.46 x 10 ⁻²	1.08 x 10 ⁻²	4.73
2.5	47	0.128	8.46 x 10 ⁻²	1.08 x 10 ⁻²	1.27
				Total	15.88
Monthly Discharge = 15.88 ft ³ /day x 31 days = 492 ft ³					

2. Outflow from Downward Seepage Through the Weathered Bedrock Contact

Hydraulic Conductivity Weathered Bedrock (feet/day)	Vertical Gradient (Geometric Mean)	Darcy Velocity (feet/day)	Present Landfill Area (ft ²)	Discharge (ft ³ /day)	Monthly Recharge (ft ³ /month)
1.24 x 10 ⁻³	0.080	9.92 x 10 ⁻³	714,375	70.87	2,197

III. Volume of Groundwater/Leachate in Storage = 3,646,875 ft³ x 0.15² = 547,031 ft³

IV. Mass Balance: Inflow - Outflow = Change in Storage

1. Total Groundwater Inflow = 4,657 ft³
2. Total Groundwater Outflow = 2,689 ft³
3. Change in Storage = +1,968 ft³

Where:

¹Area between 0' and 2.5' isopach lines was assumed to have an average saturated thickness of 1.25 feet.

²Specific yield value (Sy) for sand and gravel (Walton 1970).

ft = feet

ft² = square feet

ft³ = cubic feet

NOTICE:

It appears that Column H is missing. If a replacement page is distributed, it will be microfilmed and included in the Administrative Record file.

The Administrative Record Staff

Column I - Runoff
Example Calculation for Determining Runoff Coefficient "C"

Calculation of "C" for Area III

See following page for "C" descriptions

	Estimated "C"
Slope, moderate	0.17
Surface permeability, impervious clays, shallow soils	0.10
Vegetation, 90% covered with heavy growth	0.05
Surface, roughened soil	<u>0.09</u>
Total	0.41

"C" Value for Area III estimated at 0.40

Column I - Runoff
Estimating "C" in Rational Formula

Unimproved Areas

Condition	Extreme	High	Moderate	Low
Slope	.32 Above 30%	.24 10%-30%	.17 5%-10%	.11 0%-5%
Surface permeability	.14 bare rock or very thin soil	.10 Impervious clays, shallow soils	.07 Well drained soils	.05 Deep sand, volcanic ash
Vegetation	.14 None or very sparse	.10 Less than 20% covered with substantial growth	.07 About 50% covered with heavy growth	.05 90% covered with heavy growth, deep humus layer
Surface	.11 Smooth soil, slick rock, drainage flow continuous	.09 Roughened soil or rocks	.07 Drainage flow interrupted; many ponds, lakes, marshes	.05 Drainage flow arrested, large lakes, ponds, marshes

Improved Areas

Surface	C
Roof surfaces	.90
Asphalt or concrete pavement, patios, driveways, streets, sidewalks	.35
Landscape areas	.25
Gravel walks, roadways	.30

Column J - Discharge to Pond from Groundwater Intercept System

Vertical Hydraulic Gradient Between the East Landfill Pond and Weathered Bedrock Groundwater

Well Location	Groundwater Elevation (feet)	Date Groundwater Elevation Measured	Surface Water Location	ELP Surface Water Elevation (feet)	Date Surface Water Elevation Measured	Vertical Hydraulic Gradient ¹
B206789	5917.98	04/01/92	ELP	5919.50	04/13/92	0.204
B206789	5918.47	07/01/92	ELP	5919.50	07/01/92	0.138
B206789	5918.13	10/01/92	ELP	5919.10	10/05/92	0.130
B206789	5917.68	12/22/92	ELP	5919.20	12/07/92	0.204
B206789	5918.45	01/13/93	ELP	5919.30	01/04/93	0.114
B206789	5918.85	02/08/93	ELP	5919.40	02/01/93	0.074
B206789	5916.65	03/22/93	ELP	5916.60	03/08/93	0.400
B206789	5917.64	04/02/93	ELP	5919.90	04/02/93	0.303

¹The vertical hydraulic gradient was calculated as the quotient of the difference between water level elevations divided by the vertical distance between the elevation of the center of the screened interval and the top of bedrock elevation. Vertical hydraulic gradients were only calculated from observations that were obtained during the same month. Vertical hydraulic gradients are dimensionless parameters.

ELP East Landfill Pond

Geometric Mean = 0.172

Column L - Landfill Pond Evaporation
Example Calculation for Determining Monthly Pond Evaporation

$$\text{Pond evaporation} = (\text{pan evaporation})(0.7)(\text{pond area})$$

$$\text{Approximate pond area} = (2.5 \text{ acres})(43,680 \text{ ft}^2/\text{acre}) = 108,900 \text{ ft}^2$$

Calculation of pond evaporation for March

$$\begin{aligned}\text{Pan evaporation} &= (-3.05 \text{ inches})(1 \text{ foot}/12 \text{ inches}) = -0.25 \text{ feet} \\ (\text{March})\end{aligned}$$

$$\begin{aligned}\text{March pond evaporation} &= (-0.25 \text{ feet})(0.7)(108,900 \text{ ft}^2) \\ &= (-19,375 \text{ ft}^3)(1 \text{ gallon}/0.1337 \text{ ft}^3)(1 \text{ MG}/1,000,000 \text{ gallons}) \\ &= -0.145 \text{ MG} \approx -0.15 \text{ MG} \\ &= -0.15 \text{ MG}\end{aligned}$$

Where:

ft^2 = square feet

ft^3 = cubic feet

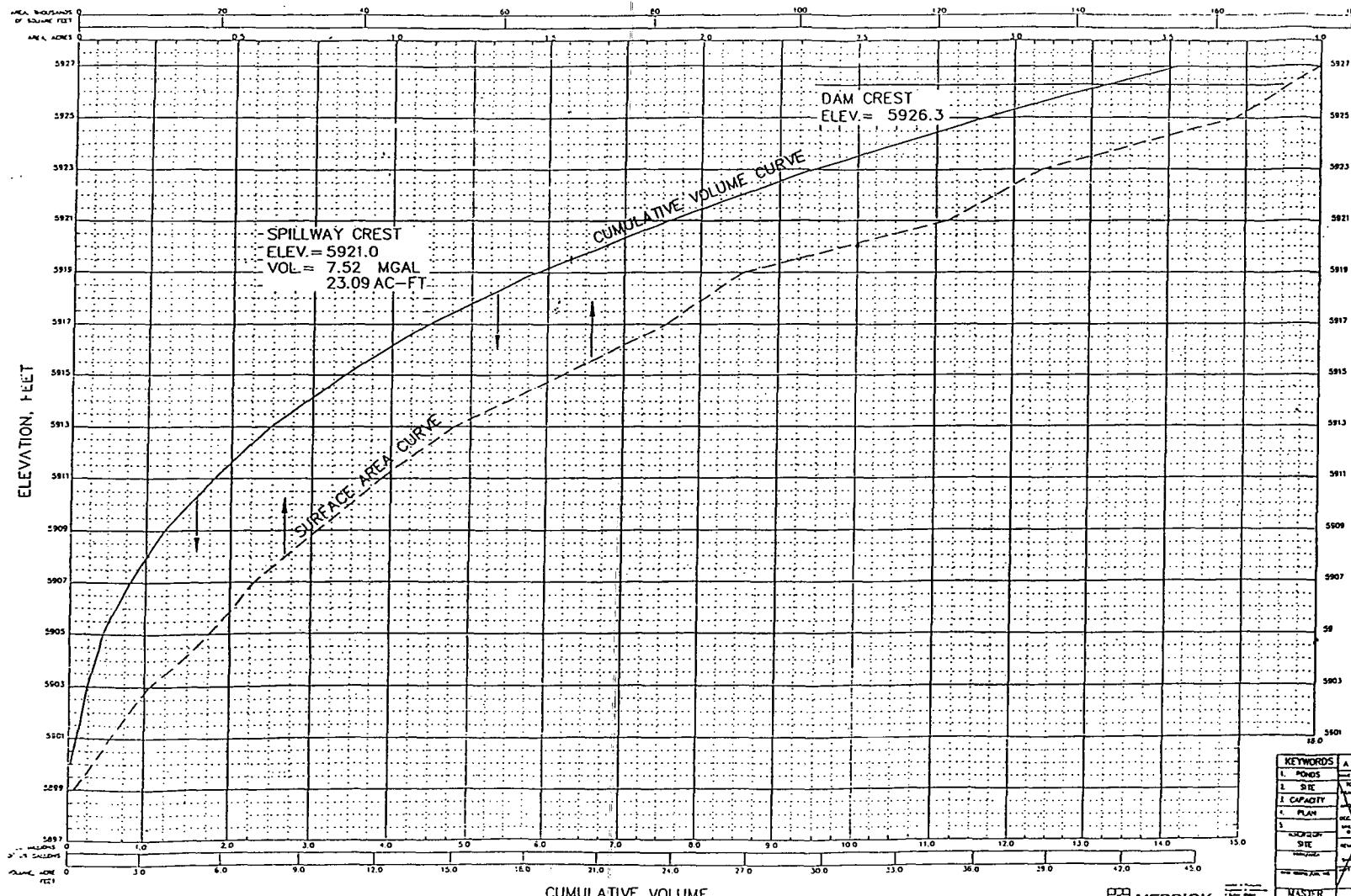
MG = million gallons

NOTICE:

It appears that Column K is missing. If a replacement page is distributed, it will be microfilmed and included in the Administrative Record file.

The Administrative Record Staff

SURFACE AREA



DEFINITION FOR CAPACITY STUDY					
Element	Surface Area	Volume	Capacity	Volume	Capacity
Element	Surface Area, Square Feet	Volume, Cubic Feet	Capacity, Cubic Feet	Volume, Cubic Feet	Capacity, Cubic Feet
5847	0.0	0.00	0.00	0.00	0.00
5845	1.0	0.00	0.00	0.00	0.00
5843	2.0	0.00	0.00	0.00	0.00
5841	3.0	0.00	0.00	0.00	0.00
5839	4.0	0.00	0.00	0.00	0.00
5837	5.0	0.00	0.00	0.00	0.00
5835	6.0	0.00	0.00	0.00	0.00
5833	7.0	0.00	0.00	0.00	0.00
5831	8.0	0.00	0.00	0.00	0.00
5829	9.0	0.00	0.00	0.00	0.00
5827	10.0	0.00	0.00	0.00	0.00
5825	11.0	0.00	0.00	0.00	0.00
5823	12.0	0.00	0.00	0.00	0.00
5821	13.0	0.00	0.00	0.00	0.00
5819	14.0	0.00	0.00	0.00	0.00
5817	15.0	0.00	0.00	0.00	0.00
5815	16.0	0.00	0.00	0.00	0.00
5813	17.0	0.00	0.00	0.00	0.00
5811	18.0	0.00	0.00	0.00	0.00
5809	19.0	0.00	0.00	0.00	0.00
5807	20.0	0.00	0.00	0.00	0.00
5805	21.0	0.00	0.00	0.00	0.00
5803	22.0	0.00	0.00	0.00	0.00
5801	23.0	0.00	0.00	0.00	0.00
5899	24.0	0.00	0.00	0.00	0.00
5897	25.0	0.00	0.00	0.00	0.00
5895	26.0	0.00	0.00	0.00	0.00
5893	27.0	0.00	0.00	0.00	0.00
5891	28.0	0.00	0.00	0.00	0.00
5889	29.0	0.00	0.00	0.00	0.00
5887	30.0	0.00	0.00	0.00	0.00
5885	31.0	0.00	0.00	0.00	0.00
5883	32.0	0.00	0.00	0.00	0.00
5881	33.0	0.00	0.00	0.00	0.00
5879	34.0	0.00	0.00	0.00	0.00
5877	35.0	0.00	0.00	0.00	0.00
5875	36.0	0.00	0.00	0.00	0.00
5873	37.0	0.00	0.00	0.00	0.00
5871	38.0	0.00	0.00	0.00	0.00
5869	39.0	0.00	0.00	0.00	0.00
5867	40.0	0.00	0.00	0.00	0.00
5865	41.0	0.00	0.00	0.00	0.00
5863	42.0	0.00	0.00	0.00	0.00
5861	43.0	0.00	0.00	0.00	0.00
5859	44.0	0.00	0.00	0.00	0.00
5857	45.0	0.00	0.00	0.00	0.00
5855	46.0	0.00	0.00	0.00	0.00
5853	47.0	0.00	0.00	0.00	0.00
5851	48.0	0.00	0.00	0.00	0.00
5849	49.0	0.00	0.00	0.00	0.00
5847	50.0	0.00	0.00	0.00	0.00
5845	51.0	0.00	0.00	0.00	0.00
5843	52.0	0.00	0.00	0.00	0.00
5841	53.0	0.00	0.00	0.00	0.00
5839	54.0	0.00	0.00	0.00	0.00
5837	55.0	0.00	0.00	0.00	0.00
5835	56.0	0.00	0.00	0.00	0.00
5833	57.0	0.00	0.00	0.00	0.00
5831	58.0	0.00	0.00	0.00	0.00
5829	59.0	0.00	0.00	0.00	0.00
5827	60.0	0.00	0.00	0.00	0.00
5825	61.0	0.00	0.00	0.00	0.00
5823	62.0	0.00	0.00	0.00	0.00
5821	63.0	0.00	0.00	0.00	0.00
5819	64.0	0.00	0.00	0.00	0.00
5817	65.0	0.00	0.00	0.00	0.00
5815	66.0	0.00	0.00	0.00	0.00
5813	67.0	0.00	0.00	0.00	0.00
5811	68.0	0.00	0.00	0.00	0.00
5809	69.0	0.00	0.00	0.00	0.00
5807	70.0	0.00	0.00	0.00	0.00
5805	71.0	0.00	0.00	0.00	0.00
5803	72.0	0.00	0.00	0.00	0.00
5801	73.0	0.00	0.00	0.00	0.00
5899	74.0	0.00	0.00	0.00	0.00
5897	75.0	0.00	0.00	0.00	0.00
5895	76.0	0.00	0.00	0.00	0.00
5893	77.0	0.00	0.00	0.00	0.00
5891	78.0	0.00	0.00	0.00	0.00
5889	79.0	0.00	0.00	0.00	0.00
5887	80.0	0.00	0.00	0.00	0.00
5885	81.0	0.00	0.00	0.00	0.00
5883	82.0	0.00	0.00	0.00	0.00
5881	83.0	0.00	0.00	0.00	0.00
5879	84.0	0.00	0.00	0.00	0.00
5877	85.0	0.00	0.00	0.00	0.00
5875	86.0	0.00	0.00	0.00	0.00
5873	87.0	0.00	0.00	0.00	0.00
5871	88.0	0.00	0.00	0.00	0.00
5869	89.0	0.00	0.00	0.00	0.00
5867	90.0	0.00	0.00	0.00	0.00
5865	91.0	0.00	0.00	0.00	0.00
5863	92.0	0.00	0.00	0.00	0.00
5861	93.0	0.00	0.00	0.00	0.00
5859	94.0	0.00	0.00	0.00	0.00
5857	95.0	0.00	0.00	0.00	0.00
5855	96.0	0.00	0.00	0.00	0.00
5853	97.0	0.00	0.00	0.00	0.00
5851	98.0	0.00	0.00	0.00	0.00
5849	99.0	0.00	0.00	0.00	0.00
5847	100.0	0.00	0.00	0.00	0.00

COMPUTER GENERATED
NO MANUAL CHANGES ALLOWED

D 39873-022 A 2424

Appendix J

Data Quality Tables

KEY TO DATA QUALITY TABLES

REAL QUAL	real result laboratory qualifier
REAL DL	real result detection limit
DUP RESULT	duplicate result
DUP QUAL	duplicate result laboratory qualifier
DUP DL	duplicate result detection limit
RPD	relative percent difference
%R	percent recovery
%Bias	percent bias = 100 - %R
N	number of RPDs calculated
N > X%	number of RPDs or %Biases above QC criterion
Avg	arithmetic average
StDev	standard deviation
%CV	coefficient of variation = (StDev/Avg) * 100
NC	not calculated
NA	not available
MS	matrix spike
MSD	matrix spike duplicate
SPK	undesignated spike
PCI/L	picocuries per liter
UG/L	micrograms per liter
MG/L	milligrams per liter

Table J-1
Relative Percent Differences for Real/Duplicate Sample Pairs of Soil Gas

IHSS	LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL DL	DUP RESULT	DUP DL	RPD	N	N>20%	Avg	StDev	%CV
IHSS 114	SGS00493	02/26/93	2-BUTANONE	0.532	0.005	0.621	0.005	15.44					
IHSS 114	SGS00893	02/23/93	2-BUTANONE	0.355	0.005	0.26	0.005	30.89					
IHSS 114	SGS01393	02/20/93	2-BUTANONE	26.007	0.005	31.52	0.005	19.17					
IHSS 114	SGS01993	04/13/93	2-BUTANONE	4.002	0.005	0.15	0.005	185.55					
IHSS 114	SGS01993	04/13/93	2-BUTANONE	0.189	0.005	0.5	0.005	90.28					
IHSS 114	SGS03293	02/18/93	2-BUTANONE	1.262	0.005	0.784	0.005	46.73					
IHSS 114	SGS03393	02/26/93	2-BUTANONE	0.142	0.005	0.126	0.005	11.94					
IHSS 114	SGS03493	02/26/93	2-BUTANONE	0.129	0.005	0.076	0.005	51.71	8	5	56.46	58.11	102.91
IHSS 114	SGS00493	02/26/93	1,2-DICHLOROETHENE	80.562	0.005	27.953	0.005	96.96					
IHSS 114	SGS00893	02/23/93	1,2-DICHLOROETHENE	4.099	0.005	17.991	0.005	125.78					
IHSS 114	SGS01393	02/20/93	1,2-DICHLOROETHENE	115.064	0.005	128.56	0.005	11.08					
IHSS 114	SGS01993	04/13/93	1,2-DICHLOROETHENE	43.384	0.005	57.503	0.005	27.99					
IHSS 114	SGS01993	04/13/93	1,2-DICHLOROETHENE	20.382	0.005	30.52	0.005	39.83					
IHSS 114	SGS03293	02/18/93	1,2-DICHLOROETHENE	44.983	0.005	37.52	0.005	18.09					
IHSS 114	SGS03393	02/26/93	1,2-DICHLOROETHENE	36.096	0.005	6.434	0.005	139.49					
IHSS 114	SGS03493	02/26/93	1,2-DICHLOROETHENE	21.407	0.005	18.731	0.005	13.33	8	5	59.07	53.13	89.95
IHSS 114	SGS00493	02/26/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS00893	02/23/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS01393	02/20/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS01993	04/13/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS01993	04/13/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS03293	02/18/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS03393	02/26/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS03493	02/26/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00	8	0			
IHSS 114	SGS00493	02/26/93	ACETONE	0.26	0.005	<0.005	0.005	192.45					
IHSS 114	SGS00893	02/23/93	ACETONE	3.6	0.005	3.42	0.005	5.13					
IHSS 114	SGS01393	02/20/93	ACETONE	32.656	0.005	35.29	0.005	7.75					
IHSS 114	SGS01993	04/13/93	ACETONE	7.049	0.005	2.19	0.005	105.18					
IHSS 114	SGS01993	04/13/93	ACETONE	2.35	0.005	9.81	0.005	122.70					
IHSS 114	SGS03293	02/18/93	ACETONE	0.75	0.005	<0.005	0.005	197.35					
IHSS 114	SGS03393	02/26/93	ACETONE	0.171	0.005	0.96	0.005	139.52					
IHSS 114	SGS03493	02/26/93	ACETONE	1.674	0.005	0.217	0.005	154.10	8	6	115.52	74.29	64.31
IHSS 114	SGS00493	02/26/93	HYDROGEN SULFIDE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS00893	02/23/93	HYDROGEN SULFIDE	0.223	0.005	<0.005	0.005	191.23					
IHSS 114	SGS01393	02/20/93	HYDROGEN SULFIDE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS01993	04/13/93	HYDROGEN SULFIDE	<0.005	0.005	<0.005	0.005	0.00					

Table J-1
Relative Percent Differences for Real/Duplicate Sample Pairs of Soil Gas

IHSS	LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL DL	DUP RESULT	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
IHSS 114	SGS01993	04/13/93	HYDROGEN SULFIDE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS03293	02/18/93	HYDROGEN SULFIDE	0.074	0.005	<0.005	0.005	174.68					
IHSS 114	SGS03393	02/26/93	HYDROGEN SULFIDE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS03493	02/26/93	HYDROGEN SULFIDE	0.816	0.005	0.816	0.005	0.00	8	2	45.74	84.81	185.42
IHSS 114	SGS00493	02/26/93	METHANE	49598.16	0.005	37082.59	0.005	28.88					
IHSS 114	SGS00893	02/23/93	METHANE	27679.44	0.005	27422.7	0.005	0.93					
IHSS 114	SGS01393	02/20/93	METHANE	75164.84	0.005	80968.36	0.005	7.43					
IHSS 114	SGS01993	04/13/93	METHANE	73272.65	0.005	32776.73	0.005	76.37					
IHSS 114	SGS01993	04/13/93	METHANE	292.49	0.005	277.85	0.005	5.13					
IHSS 114	SGS03293	02/18/93	METHANE	56182.98	0.005	54502.19	0.005	3.04					
IHSS 114	SGS03393	02/26/93	METHANE	46725.97	0.005	32258.64	0.005	36.63					
IHSS 114	SGS03493	02/26/93	METHANE	47422.42	0.005	42478.7	0.005	11.00	8	3	21.18	25.73	121.49
IHSS 114	SGS00493	02/26/93	METHYLENE CHLORIDE	625.72	0.005	301.68	0.005	69.88					
IHSS 114	SGS00893	02/23/93	METHYLENE CHLORIDE	6.309	0.005	44.45	0.005	150.28					
IHSS 114	SGS01393	02/20/93	METHYLENE CHLORIDE	1652.625	0.005	1921.32	0.005	15.04					
IHSS 114	SGS01993	04/13/93	METHYLENE CHLORIDE	730.103	0.005	27.87	0.005	185.29					
IHSS 114	SGS01993	04/13/93	METHYLENE CHLORIDE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS03293	02/18/93	METHYLENE CHLORIDE	196.15	0.005	197.007	0.005	0.44					
IHSS 114	SGS03393	02/26/93	METHYLENE CHLORIDE	452.515	0.005	128.24	0.005	111.67					
IHSS 114	SGS03493	02/26/93	METHYLENE CHLORIDE	308.53	0.005	322.32	0.005	4.37	8	4	67.12	74.14	110.45
IHSS 114	SGS00493	02/26/93	TOLUENE	0.023	0.005	0.044	0.005	62.69					
IHSS 114	SGS00893	02/23/93	TOLUENE	0.009	0.005	0.007	0.005	25.00					
IHSS 114	SGS01393	02/20/93	TOLUENE	3.824	0.005	4.08	0.005	6.48					
IHSS 114	SGS01993	04/13/93	TOLUENE	0.099	0.005	0.058	0.005	52.23					
IHSS 114	SGS01993	04/13/93	TOLUENE	0.095	0.005	0.13	0.005	31.11					
IHSS 114	SGS03293	02/18/93	TOLUENE	0.29	0.005	0.168	0.005	53.28					
IHSS 114	SGS03393	02/26/93	TOLUENE	0.015	0.005	0.006	0.005	85.71					
IHSS 114	SGS03493	02/26/93	TOLUENE	0.009	0.005	0.008	0.005	11.76	8	6	41.03	27.12	66.08
IHSS 114	SGS00493	02/26/93	TRICHLOROETHENE	0.011	0.005	0.005	0.005	75.00					
IHSS 114	SGS00893	02/23/93	TRICHLOROETHENE	<0.005	0.005	<0.005	0.005	0.00					
IHSS 114	SGS01393	02/20/93	TRICHLOROETHENE	0.504	0.005	0.46	0.005	9.13					
IHSS 114	SGS01993	04/13/93	TRICHLOROETHENE	0.074	0.005	0.05	0.005	38.71					
IHSS 114	SGS01993	04/13/93	TRICHLOROETHENE	0.073	0.005	0.1	0.005	31.21					
IHSS 114	SGS03293	02/18/93	TRICHLOROETHENE	0.232	0.005	0.125	0.005	59.94					
IHSS 114	SGS03393	02/26/93	TRICHLOROETHENE	0.007	0.005	<0.005	0.005	33.33					
IHSS 114	SGS03493	02/26/93	TRICHLOROETHENE	0.006	0.005	<0.005	0.005	18.18	8	5	33.19	25.08	75.58

Table J-1
Relative Percent Differences for Real/Duplicate Sample Pairs of Soil Gas

IHSS	LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL DL	DUP RESULT	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
IHSS 114	SGS00493	02/26/93	PARA,META XYLENE	0.03	0.005	0.03	0.005	0.00					
IHSS 114	SGS00893	02/23/93	PARA,META XYLENE	0.016	0.005	0.01	0.005	46.15					
IHSS 114	SGS01393	02/20/93	PARA,META XYLENE	2.284	0.005	1.89	0.005	18.88					
IHSS 114	SGS01993	04/13/93	PARA,META XYLENE	0.094	0.005	0.087	0.005	7.73					
IHSS 114	SGS01993	04/13/93	PARA,META XYLENE	0.133	0.005	0.2	0.005	40.24					
IHSS 114	SGS03293	02/18/93	PARA,META XYLENE	0.778	0.005	0.4616	0.005	51.05					
IHSS 114	SGS03393	02/26/93	PARA,META XYLENE	0.007	0.005	<0.005	0.005	33.33					
IHSS 114	SGS03493	02/26/93	PARA,META XYLENE	0.007	0.005	0.01	0.005	35.29	8	5	29.09	18.36	63.14
IHSS 114	SGS00493	02/26/93	ORTHO XYLENE	0.015	0.005	0.008	0.005	60.87					
IHSS 114	SGS00893	02/23/93	ORTHO XYLENE	0.011	0.005	<0.005	0.005	75.00					
IHSS 114	SGS01393	02/20/93	ORTHO XYLENE	1.899	0.005	1.49	0.005	24.14					
IHSS 114	SGS01993	04/13/93	ORTHO XYLENE	0.088	0.005	0.082	0.005	7.06					
IHSS 114	SGS01993	04/13/93	ORTHO XYLENE	0.115	0.005	<0.005	0.005	183.33					
IHSS 114	SGS03293	02/18/93	ORTHO XYLENE	0.636	0.005	0.384	0.005	49.41					
IHSS 114	SGS03393	02/26/93	ORTHO XYLENE	<0.005	0.005	0.009	0.005	57.14					
IHSS 114	SGS03493	02/26/93	ORTHO XYLENE	0.016	0.005	0.005	0.005	104.76	8	7	70.21	54.53	77.66
IHSS 203	SG715493	12/04/92	2-BUTANONE	ND		ND		0.00					
IHSS 203	SG716893	12/08/92	2-BUTANONE	ND		ND		0.00	2	0			
IHSS 203	SG715493	12/04/92	1,2-DICHLOROETHENE	2		4		66.67					
IHSS 203	SG716893	12/08/92	1,2-DICHLOROETHENE	0.7		0.6		15.38	2	1	41.03	36.26	88.39
IHSS 203	SG715493	12/04/92	1,1,1-TRICHLOROETHANE	0.12		0.19		45.16					
IHSS 203	SG716893	12/08/92	1,1,1-TRICHLOROETHANE	1		0.08		170.37	2	2	107.77	88.54	82.16
IHSS 203	SG715493	12/04/92	ACETONE	0.5		0.7		33.33					
IHSS 203	SG716893	12/08/92	ACETONE	1		0.9		10.53	2	1	21.93	16.12	73.53
IHSS 203	SG715493	12/04/92	BENZENE	ND		ND		0.00					
IHSS 203	SG716893	12/08/92	BENZENE	ND		ND		0.00	2	0			
IHSS 203	SG715493	12/04/92	DICHLOROMETHANE	0.3		0.8		90.91					
IHSS 203	SG716893	12/08/92	DICHLOROMETHANE	0.2		0.2		0.00	2	1	45.46	64.28	141.42
IHSS 203	SG715493	12/04/92	TOLUENE	ND		ND		0.00					
IHSS 203	SG716893	12/08/92	TOLUENE	0.5		0.4		22.22	2	1	11.11	15.71	141.42
IHSS 203	SG715493	12/04/92	TRICHLOROETHENE	3		0.4		152.94					
IHSS 203	SG716893	12/08/92	TRICHLOROETHENE	1		4		120.00	2	2	136.47	23.29	17.07
IHSS 203	SG715493	12/04/92	XYLENES	6		16		90.91					
IHSS 203	SG716893	12/08/92	XYLENES	1		2		66.67	2	2	78.79	17.14	21.75

Table J-2
Relative Percent Differences for Real/Duplicate Sample Pairs of Landfill Leachate-Groundwater

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL DL	DUP RESULT	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
BAT01393	03/10/93	2-BUTANONE	0.194	0.005	0.071	0.005	92.83					
BAT03493	04/06/93	2-BUTANONE	0.169	0.005	0.15	0.005	11.91	2	1	52.37	57.22	484.64
BAT01393	03/10/93	1,2-DICHLOROETHENE	3.383	0.005	0.252	0.005	172.27					
BAT03493	04/06/93	1,2-DICHLOROETHENE	0.209	0.005	0.13	0.005	46.61	2	2	109.44	88.86	2058.22
BAT01393	03/10/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00					
BAT03493	04/06/93	1,1,1-TRICHLOROETHANE	<0.005	0.005	<0.005	0.005	0.00	2	0			
BAT01393	03/10/93	ACETONE	0.335	0.005	0.352	0.005	4.95					
BAT03493	04/06/93	ACETONE	0.331	0.005	0.286	0.005	14.59	2	0	9.77	6.81	295.42
BAT01393	03/10/93	HYDROGEN SULFIDE	<0.005	0.005	<0.005	0.005	0.00					
BAT03493	04/06/93	HYDROGEN SULFIDE	1.039	0.005	1.335	0.005	24.94	2	1	12.47	17.64	516.52
BAT01393	03/10/93	METHANE	18055.67	0.005	20457.56	0.005	12.47					
BAT03493	04/06/93	METHANE	72.55	0.005	42.039	0.005	53.25	2	1	32.86	28.84	402.36
BAT01393	03/10/93	METHYLENE CHLORIDE	0.494	0.005	0.47	0.005	4.98					
BAT03493	04/06/93	METHYLENE CHLORIDE	0.159	0.005	0.294	0.005	59.60	2	1	32.29	38.62	633.31
BAT01393	03/10/93	TOLUENE	0.011	0.005	0.007	0.005	44.44					
BAT03493	04/06/93	TOLUENE	0.041	0.005	0.027	0.005	41.18	2	2	42.81	2.31	4049.97
BAT01393	03/10/93	TRICHLOROETHENE	<0.005	0.005	0.034	0.005	101.49					
BAT03493	04/06/93	TRICHLOROETHENE	0.026	0.005	0.02	0.005	26.09	2	2	63.79	53.32	1047.11
BAT01393	03/10/93	PARA,META XYLENE	0.005	0.005	0.006	0.005	18.18					
BAT03493	04/06/93	PARA,META XYLENE	0.039	0.005	0.025	0.005	43.75	2	1	30.97	18.08	1288.43
BAT01393	03/10/93	ORTHO XYLENE	<0.005	0.005	<0.005	0.005	0.00					
BAT03493	04/06/93	ORTHO XYLENE	0.044	0.005	0.03	0.005	37.84	2	1	18.92	26.76	783.65

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
SS713693	12/02/92	ALUMINUM	11600	4.6	10500	4.2	10.00								
SS713993	03/31/93	ALUMINUM	9390	7.1	10000	6.9	6.00								
SS715293	12/03/92	ALUMINUM	11800	9.4	11500	9.9	3.00								
SS715493	12/03/92	ALUMINUM	12800	10.3	10200	10	23.00								
SS715793	03/31/93	ALUMINUM	11100	6.7	9030	6.9	21.00								
SS716393	12/09/92	ALUMINUM	7470	4.5	8020	4.3	7.00								
SS717393	12/09/92	ALUMINUM	12100	4.3	10300	3.8	16.00								
SS700093	12/18/92	ALUMINUM	14800	4.6	11400	4.8	26.00								
SS700293	04/08/93	ALUMINUM	21100	5.7	19200	5.2	9.00								
SS700493	12/17/92	ALUMINUM	9870	13.1	10900	11.6	10.00								
SS701793	04/07/93	ALUMINUM	18600	6.2	15000	5.1	21.00								
SS701893	12/17/92	ALUMINUM	9900	5	9520	4.4	4.00								
SS702293	04/06/93	ALUMINUM	12000	7.3	10800	7.1	11.00								
SS702693	12/16/92	ALUMINUM	8380	4.2	9910	4.2	17.00								
SS703693	12/16/92	ALUMINUM	11200	4.5	11900	4.9	6.00								
SS703793	04/07/93	ALUMINUM	6870	6.3	7450	7.8	8.00								
SS704693	12/15/92	ALUMINUM	10800	4.2	10300	4.5	5.00								
SS705893	12/15/92	ALUMINUM	8530	4.7	9340	4.2	9.00								
SS706893	12/14/92	ALUMINUM	11400	8.9	8860	9.4	25.00								
SS707993	12/11/92	ALUMINUM	15000	10.7	12900	11.3	15.00								
SS708093	12/14/92	ALUMINUM	14100	10.9	16100	11.7	13.00								
SS708193	04/12/93	ALUMINUM	13400	5.7	11900	5.7	12.00								
SS708593	04/13/93	ALUMINUM	15300	5.6	16100	5.3	5.00								
SS710793	12/11/92	ALUMINUM	13900	10.3	14000	9.5	1.00								
SS711993	12/10/92	ALUMINUM	8340	12.6	9170	12.8	9.00								
SS712393	12/10/92	ALUMINUM	12200	10.9	14700	11	19.00								
SS719993	04/12/93	ALUMINUM	14600	5.0	13400	5.5	9.00								
SS717693	03/06/93	ALUMINUM	10700	6.4	11400	6.8	8.00								
SS719093	03/01/93	ALUMINUM	7800	6.9	11000	6.9	34.00	29	0	12.41	7.98	64.32			
SS713693	12/02/92	ANTIMONY	6	6	5.4	U	5.4	11.00							
SS713993	03/31/93	ANTIMONY	4.4	U	4.4	4.3	U	4.3	0.00						
SS715293	12/03/92	ANTIMONY	8.2	U	8.2	8.7	U	8.7	0.00						
SS715493	12/03/92	ANTIMONY	10.1		9	8.7	U	8.7	14.90						
SS715793	03/31/93	ANTIMONY	4.2	U	4.2	4.3	U	4.3	0.00						
SS716393	12/09/92	ANTIMONY	5.9	U	5.9	5.7	U	5.7	0.00						
SS717393	12/09/92	ANTIMONY	5.7	U	5.7	5	U	5	0.00						
SS700093	12/18/92	ANTIMONY	6	U	6	6.2	U	6.2	0.00						
SS700293	04/08/93	ANTIMONY	8.0	U	8.0	7.2	U	7.2	0.00						
SS700493	12/17/92	ANTIMONY	11.4	U	11.4	10.1	U	10.1	0.00						
SS701793	04/07/93	ANTIMONY	8.7	U	8.7	7.2	U	7.2	0.00						
SS701893	12/17/92	ANTIMONY	6.5	U	6.5	5.8	U	5.8	0.00						
SS702293	04/06/93	ANTIMONY	4.5	U	4.5	4.4	U	4.4	0.00						
SS702693	12/16/92	ANTIMONY	5.5	U	5.5	5.5	U	5.5	0.00						
SS703693	12/16/92	ANTIMONY	5.9	U	5.9	6.4	U	6.4	0.00						
SS703793	04/07/93	ANTIMONY	3.9	U	3.9	4.9	U	4.9	0.00						
SS704693	12/15/92	ANTIMONY	5.4	U	5.4	5.9	U	5.9	0.00						
SS705893	12/15/92	ANTIMONY	6.1	U	6.1	5.4	U	5.4	0.00						
SS706893	12/14/92	ANTIMONY	7.7	U	7.7	8.2	U	8.2	0.00						

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
SS707993	12/11/92	ANTIMONY	9.3	U	9.3	9.8	U	9.8	0.00						
SS708093	12/14/92	ANTIMONY	9.5	U	9.5	10.2	U	10.2	0.00						
SS708193	04/12/93	ANTIMONY	8.0	U	8.0	8.1	U	8.1	0.00						
SS708693	04/13/93	ANTIMONY	7.9	U	7.9	7.4	U	7.4	0.00						
SS710793	12/11/92	ANTIMONY	9	U	9	8.2	U	8.2	0.00						
SS711993	12/10/92	ANTIMONY	11	U	11	11.2	U	11.2	0.00						
SS712393	12/10/92	ANTIMONY	9.5	U	9.5	9.6	U	9.6	0.00						
SS719993	04/12/93	ANTIMONY	7.0	U	7.0	7.8	U	7.8	0.00						
SS717693	03/06/93	ANTIMONY	4	U	4	4.2	U	4.2	0.00						
SS719093	03/01/93	ANTIMONY	4.3	U	4.3	4.3	U	4.3	0.00	29	0	0.89	3.38	378.45	
SS713693	12/02/92	ARSENIC	3.9	.4		3.4			.39	13.70					
SS713993	03/31/93	ARSENIC	4.1	.24		5.6			.25	29.20					
SS715293	12/03/92	ARSENIC	3.5	.14		4			.13	13.00					
SS715493	12/03/92	ARSENIC	3.3	.15		4.2			.17	24.00					
SS715793	03/31/93	ARSENIC	5.1	.27		4.8			.24	6.10					
SS716393	12/09/92	ARSENIC	4.4	.16		5			.18	13.00					
SS717393	12/09/92	ARSENIC	4.6	.19		3.2			.16	35.90					
SS700093	12/18/92	ARSENIC	2.9	.22		3.1			.17	8.70					
SS700293	04/08/93	ARSENIC	5.8	0.27		5.5			0.29	5.30					
SS700493	12/17/92	ARSENIC	7.5	2.6		6.7			2.4	11.30					
SS701793	04/07/93	ARSENIC	5.8	0.28		4.8			0.26	18.90					
SS701893	12/17/92	ARSENIC	6.4	.19		5.8			.19	9.80					
SS702293	04/06/93	ARSENIC	15.7	1.5		19.9			1.3	23.60					
SS702693	12/16/92	ARSENIC	5.1	.15		5			.16	2.00					
SS703693	12/16/92	ARSENIC	4.6	.17		5.1			.17	10.30					
SS703793	04/07/93	ARSENIC	1.8	.34		1.2			.27	40.00					
SS704693	12/15/92	ARSENIC	4.5	.21		4			.17	12.00					
SS705893	12/15/92	ARSENIC	3.4	.26		3.2			.27	6.10					
SS706893	12/14/92	ARSENIC	7.2	.15		7.5			.16	4.10					
SS707993	12/11/92	ARSENIC	4.2	.42		4.8			.38	13.30					
SS708093	12/14/92	ARSENIC	4.7	.17		4.8			.17	2.10					
SS708193	04/12/93	ARSENIC	6.3	0.27		6.2			0.25	1.60					
SS708693	04/13/93	ARSENIC	4.0	0.29		4.5			0.30	11.80					
SS710793	12/11/92	ARSENIC	6.2	.34		7.4			.45	17.60					
SS711993	12/10/92	ARSENIC	10	.2		11.7			.84	16.00					
SS712393	12/10/92	ARSENIC	6.2	.16		4.2			.19	21.30					
SS719993	04/12/93	ARSENIC	4.5	0.24		4.7			0.27	4.30					
SS717693	03/06/93	ARSENIC	3.2	.22		3.4			.22	6.10					
SS719093	03/01/93	ARSENIC	5.9	.31		5.8			.31	1.70	29	2	13.13	10.00	76.16
SS713693	12/02/92	BARIUM	125	.51		123			.47	2.00					
SS713993	03/31/93	BARIUM	100	1.5		91.5			1.4	9.00					
SS716293	12/03/92	BARIUM	94.9	.36		87.6			.38	8.00					
SS715493	12/03/92	BARIUM	146	.4		79.7			.39	59.00					
SS715793	03/31/93	BARIUM	122	1.4		106			1.4	14.00					
SS716393	12/09/92	BARIUM	102	.51		115			.49	12.00					
SS717393	12/09/92	BARIUM	122	.49		121			.43	1.00					
SS700093	12/18/92	BARIUM	146	.51		124			.54	16.00					
SS700293	04/08/93	BARIUM	148	0.61		121			0.65	20.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS700493	12/17/92	BARIUM	128	.51	121	.46	6.00							
SS701793	04/07/93	BARIUM	201	0.67	173	0.55	15.00							
SS701893	12/17/92	BARIUM	134	.56	135	.5	1.00							
SS702293	04/06/93	BARIUM	189	1.6	207	1.6	9.00							
SS702693	12/16/92	BARIUM	122	.47	125	.48	2.00							
SS703693	12/16/92	BARIUM	269	.5	270	.55	0.00							
SS703793	04/07/93	BARIUM	30	1.3	85.9	1.6	96.00							
SS704693	12/15/92	BARIUM	178	.47	185	.51	NC							
SS705893	12/15/92	BARIUM	204	.52	121	.47	51.00							
SS706893	12/14/92	BARIUM	135	.34	124	.36	8.00							
SS707993	12/11/92	BARIUM	334	.41	319	.44	5.00							
SS708093	12/14/92	BARIUM	409	.42	412	.45	1.00							
SS708193	04/12/93	BARIUM	202	0.61	190	0.62	6.00							
SS708593	04/13/93	BARIUM	375	0.60	572	0.57	42.00							
SS710793	12/11/92	BARIUM	222	.4	219	.37	1.00							
SS711993	12/10/92	BARIUM	133	.6	130	.61	2.00							
SS712393	12/10/92	BARIUM	150	.52	180	.53	18.00							
SS719993	04/12/93	BARIUM	175	0.54	171	0.59	2.00							
SS717693	03/06/93	BARIUM	73.4	1.3	85.6	1.4	15.30							
SS719093	03/01/93	BARIUM	127	1.4	125	1.4	2.00	28	4	15.12	21.82	144.32		
SS713693	12/02/92	BERYLLIUM	.76	.2	.71	.18	6.80							
SS713993	03/31/93	BERYLLIUM	.76	.2	.68	.2	11.11							
SS715293	12/03/92	BERYLLIUM	.73	0.064	.97	.068	28.24							
SS715493	12/03/92	BERYLLIUM	.7	.07	.52	.068	29.50							
SS715793	03/31/93	BERYLLIUM	.7	.19	.56	.2	22.20							
SS716393	12/09/92	BERYLLIUM	.31	.19	.49	.19	46.00							
SS717393	12/09/92	BERYLLIUM	.83	.19	.71	.16	15.58							
SS700093	12/18/92	BERYLLIUM	.81	.2	.66	.2	20.41							
SS700293	04/08/93	BERYLLIUM	1.3	0.19	1.2	0.17	8.00							
SS700493	12/17/92	BERYLLIUM	.36	.089	.34	.079	5.71							
SS701793	04/07/93	BERYLLIUM	1.2	0.21	1.0	0.17	18.20							
SS701893	12/17/92	BERYLLIUM	.43	.21	.47	.19	8.89							
SS702293	04/06/93	BERYLLIUM	.71	.21	.61	.2	15.15							
SS702693	12/16/92	BERYLLIUM	.54	.18	.59	.18	8.85							
SS703693	12/16/92	BERYLLIUM	.77	.19	.78	.21	1.29							
SS703793	04/07/93	BERYLLIUM	.49	.18	.32	.22	41.98							
SS704693	12/15/92	BERYLLIUM	.8	.18	.88	.19	9.50							
SS705893	12/15/92	BERYLLIUM	.7	.2	.83	.18	17.00							
SS706893	12/14/92	BERYLLIUM	.79	.06	.71	.064	10.67							
SS707993	12/11/92	BERYLLIUM	.92	.073	.87	.077	5.59							
SS708093	12/14/92	BERYLLIUM	1.1	0.074	1.1	.08	0.00							
SS708193	04/12/93	BERYLLIUM	0.80	0.19	0.93	0.19	15.03							
SS708593	04/13/93	BERYLLIUM	1.0	0.18	1.0	0.17	0.00							
SS710793	12/11/92	BERYLLIUM	.96	.071	.95	.065	1.05							
SS711993	12/10/92	BERYLLIUM	.8	.23	.7	.23	13.30							
SS712393	12/10/92	BERYLLIUM	1	.2	.98	.2	2.00							
SS719993	04/12/93	BERYLLIUM	0.83	0.17	0.96	0.18	14.53							
SS717693	03/06/93	BERYLLIUM	.9	.18	1.1	.19	20.00							

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS719093	03/01/93	BERYLLIUM	.77		.2	.86		.2	9.88	29	2	13.98	11.28	80.71
SS713693	12/02/92	CADMIUM	.9	U	.9	.93		.82	3.30					
SS713993	03/31/93	CADMIUM	.61	U	.61	.59	U	.59	0.00					
SS715293	12/03/92	CADMIUM	.99	U	.99	1	U	1	0.00					
SS715493	12/03/92	CADMIUM	1.1	U	1.1	1	U	1	0.00					
SS715793	03/31/93	CADMIUM	.57	U	.57	.59	U	.59	0.00					
SS716393	12/09/92	CADMIUM	.89	U	.89	.86	U	.86	0.00					
SS717393	12/09/92	CADMIUM	.86	U	.86	.75	U	.75	0.00					
SS700093	12/18/92	CADMIUM	.9	U	.9	.94	U	.94	0.00					
SS700293	04/08/93	CADMIUM	0.68	U	0.68	0.62	U	0.62	0.00					
SS700493	12/17/92	CADMIUM	1.4	U	1.4	1.2	U	1.2	0.00					
SS701793	04/07/93	CADMIUM	0.75	U	0.75	0.61	U	0.61	0.00					
SS701893	12/17/92	CADMIUM	1.1		.99	.97		.88	12.60					
SS702293	04/06/93	CADMIUM	.62	U	.62	.61	U	.61	0.00					
SS702693	12/16/92	CADMIUM	.83	U	.83	.84	U	.84	0.00					
SS703693	12/16/92	CADMIUM	.89	U	.89	.96	U	.96	0.00					
SS703793	04/07/93	CADMIUM	.53	U	.53	.67	U	.67	0.00					
SS704693	12/16/92	CADMIUM	.83	U	.83	.9	U	.9	0.00					
SS706893	12/16/92	CADMIUM	.92	U	.92	.83	U	.83	0.00					
SS706893	12/14/92	CADMIUM	.93	U	.93	.98	U	.98	0.00					
SS707993	12/11/92	CADMIUM	1.1	U	1.1	1.2	U	1.2	0.00					
SS708093	12/14/92	CADMIUM	1.1	U	1.1	1.2	U	1.2	0.00					
SS708193	04/12/93	CADMIUM	0.99		0.68	0.69	U	0.69	35.71					
SS708593	04/13/93	CADMIUM	0.67	U	0.67	0.76		0.63	12.69					
SS710793	12/11/92	CADMIUM	1.1	U	1.1	.99	U	.99	0.00					
SS711993	12/10/92	CADMIUM	1.3	U	1.3	1.3	U	1.3	0.00					
SS712393	12/10/92	CADMIUM	1.1	U	1.1	1.2	U	1.2	0.00					
SS719993	04/12/93	CADMIUM	0.60	U	0.60	0.73		0.66	19.55					
SS717693	03/06/93	CADMIUM	.54	U	.54	.58	U	.58	0.00					
SS719093	03/01/93	CADMIUM	.59	U	.59	.59	U	.59	0.00	29	1	2.89	7.89	273.26
SS713693	12/02/92	CALCIUM	8670		4.2	8200		3.9	6.00					
SS713993	03/31/93	CALCIUM	8050		6.9	6090		6.7	28.00					
SS715293	12/03/92	CALCIUM	9340		2.2	9080		2.3	3.00					
SS715493	12/03/92	CALCIUM	15200		2.4	12700		2.3	18.00					
SS715793	03/31/93	CALCIUM	20900		6.5	26300		6.7	23.00					
SS716393	12/09/92	CALCIUM	16800		4.2	31000		4	59.00					
SS717393	12/09/92	CALCIUM	17700		4	14100		3.5	23.00					
SS700093	12/18/92	CALCIUM	6110		4.3	4240		4.4	36.00					
SS700293	04/08/93	CALCIUM	7140		4.3	7300		3.9	2.00					
SS700493	12/17/92	CALCIUM	4780		3.1	4650		2.7	3.00					
SS701793	04/07/93	CALCIUM	5620		4.8	5040		3.9	11.00					
SS701893	12/17/92	CALCIUM	4470		4.6	4480		4.1	0.00					
SS702293	04/06/93	CALCIUM	5500		7.1	5810		6.9	5.00					
SS702693	12/16/92	CALCIUM	3560		3.9	3600		4	1.00					
SS703693	12/16/92	CALCIUM	7290		4.2	6350		4.5	14.00					
SS703793	04/07/93	CALCIUM	5410		6.1	5840		7.6	8.00					
SS704693	12/15/92	CALCIUM	8010		3.9	8790		4.2	9.00					
SS705893	12/15/92	CALCIUM	5940		4.3	6090		3.9	2.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS706893	12/14/92	CALCIUM	21800	2.1	20100	2.2	8.00							
SS707993	12/11/92	CALCIUM	12500	2.5	13400	2.6	7.00							
SS708093	12/14/92	CALCIUM	14700	2.6	14100	2.7	4.00							
SS708193	04/12/93	CALCIUM	6010	4.4	6020	4.4	0.00							
SS708593	04/13/93	CALCIUM	37700	4.3	17800	4.0	72.00							
SS710793	12/11/92	CALCIUM	6540	2.4	7080	2.2	8.00							
SS711993	12/10/92	CALCIUM	4780	5	4930	5.1	3.00							
SS712393	12/10/92	CALCIUM	3630	4.3	4490	4.4	21.00							
SS719993	04/12/93	CALCIUM	12500	3.8	13400	4.2	7.00							
SS717693	03/06/93	CALCIUM	7270	6.2	8770	6.6	19.00							
SS719093	03/01/93	CALCIUM	23600	6.7	27200	6.7	14.00	29	3	14.28	16.92	118.52		
SS713993	03/31/93	CESIUM	112	U	112	109	U	109	0.00					
SS715793	03/31/93	CESIUM	106	U	106	108	U	108	0.00					
SS700293	04/08/93	CESIUM	117	U	117	108	U	108	0.00					
SS701793	04/07/93	CESIUM	128	U	128	106	U	106	0.00					
SS702293	04/06/93	CESIUM	115	U	115	112	U	112	0.00					
SS703793	04/07/93	CESIUM	98.9	U	98.9	124	U	124	0.00					
SS708193	04/12/93	CESIUM	118	U	118	119	U	119	0.00					
SS708593	04/13/93	CESIUM	116	U	116	109	U	109	0.00					
SS719993	04/12/93	CESIUM	103	U	103	114	U	114	0.00					
SS717693	03/06/93	CESIUM	100	U	100	107	U	107	0.00					
SS719093	03/01/93	CESIUM	110	U	110	108	U	108	0.00	11	0			
SS713693	12/02/92	CHROMIUM	13.6	.59	11.2	.53	19.40							
SS713993	03/31/93	CHROMIUM	11.7	.58	11.5	.57	1.70							
SS715293	12/03/92	CHROMIUM	11.5	1.2	10.5	1.3	9.10							
SS715493	12/03/92	CHROMIUM	13.8	1.3	9.1	1.3	41.00							
SS715793	03/31/93	CHROMIUM	13	.55	10.7	.56	19.00							
SS716393	12/09/92	CHROMIUM	8.5	.58	9.4	.56	10.10							
SS717393	12/09/92	CHROMIUM	13.3	.56	11.7	.49	12.80							
SS700093	12/18/92	CHROMIUM	15.7	.59	12.6	.61	21.90							
SS700293	04/08/93	CHROMIUM	20.5	1.1	18.6	0.98	9.70							
SS700493	12/17/92	CHROMIUM	11.7	1.7	12.5	1.5	6.60							
SS701793	04/07/93	CHROMIUM	18.6	1.2	15.9	0.97	15.70							
SS701893	12/17/92	CHROMIUM	11.9	.64	11.5	.57	3.40							
SS702293	04/06/93	CHROMIUM	12.5	.6	11.1	.58	11.90							
SS702693	12/16/92	CHROMIUM	11.3	.54	11.6	.55	2.60							
SS703693	12/16/92	CHROMIUM	11.6	.58	12.4	.63	6.70							
SS703793	04/07/93	CHROMIUM	7.8	.51	8	.64	3.00							
SS704693	12/15/92	CHROMIUM	10.8	.54	10.4	.58	3.80							
SS705893	12/15/92	CHROMIUM	9.2	.6	10.3	.54	11.30							
SS706893	12/14/92	CHROMIUM	10.3	1.1	7.1	1.2	36.80							
SS707993	12/11/92	CHROMIUM	17.1	1.4	11.8	1.4	36.70							
SS708093	12/14/92	CHROMIUM	11.7	1.4	15.1	1.5	25.40							
SS708193	04/12/93	CHROMIUM	15.8	1.1	13.6	1.1	15.00							
SS708593	04/13/93	CHROMIUM	17.8	1.1	17.8	1.0	0.00							
SS710793	12/11/92	CHROMIUM	14	1.3	13.2	1.2	6.00							
SS711993	12/10/92	CHROMIUM	10.1	1.6	9.1	1.6	10.40							
SS712393	12/10/92	CHROMIUM	13.4	1.4	17	1.4	24.00							

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS719993	04/12/93	CHROMIUM	15.3	0.95	15.2			1.1	0.70					
SS717693	03/06/93	CHROMIUM	10.8	.52	13.1			.56	19.20					
SS719093	03/01/93	CHROMIUM	8.7	.67	12.5			.56	35.80	29	4	14.47	11.74	81.10
SS713693	12/02/92	COBALT	7	.88	6.3			.8	11.00					
SS713993	03/31/93	COBALT	5.2	.58	4.5			.57	14.40					
SS715293	12/03/92	COBALT	6	.58	5.2			.61	14.00					
SS715493	12/03/92	COBALT	6.6	.63	5			.61	28.00					
SS715793	03/31/93	COBALT	5.8	.55	5.6			.56	3.50					
SS716393	12/09/92	COBALT	6.2	.87	6			.84	3.00					
SS717393	12/09/92	COBALT	8.3	.83	7			.73	17.00					
SS700093	12/18/92	COBALT	7.2	.88	7.4			.92	2.70					
SS700293	04/08/93	COBALT	9.9	1.1	9.8			1.0	1.00					
SS700493	12/17/92	COBALT	6.8	.8	5.4			.71	23.00					
SS701793	04/07/93	COBALT	7.6	1.3	7.6			1.0	0.00					
SS701893	12/17/92	COBALT	7.4	.96	6.3			.85	16.10					
SS702293	04/06/93	COBALT	9	.6	5.8			.68	43.00					
SS702693	12/16/92	COBALT	6.9	.81	6.2			.82	10.70					
SS703693	12/16/92	COBALT	11	.87	12.2			.94	10.00					
SS703793	04/07/93	COBALT	2.8	.51	3			.64	7.00					
SS704693	12/15/92	COBALT	6.1	.8	6.6			.88	7.90					
SS705893	12/15/92	COBALT	9.5	.9	9.9			.8	4.10					
SS706893	12/14/92	COBALT	8.5	.54	7.4			.58	13.80					
SS707993	12/11/92	COBALT	7.3	.66	7.6			.69	4.00					
SS708093	12/14/92	COBALT	7.3	.67	8.1			.72	10.40					
SS708193	04/12/93	COBALT	9.3	1.2	7.1			1.2	26.80					
SS708593	04/13/93	COBALT	7.4	1.1	6.6			1.1	11.40					
SS710793	12/11/92	COBALT	9.2	.64	8.7			.58	5.60					
SS711993	12/10/92	COBALT	5.8	1	5.7			1.1	1.70					
SS712393	12/10/92	COBALT	7.6	.9	7.9			.91	3.90					
SS719993	04/12/93	COBALT	9.0	1.0	8.8			1.1	2.20					
SS717693	03/06/93	COBALT	5	.52	6.4			.55	25.00					
SS719093	03/01/93	COBALT	5.3	.57	6.9			.56	26.20	29	1	11.98	10.31	86.03
SS713693	12/02/92	COPPER	15.1	.59	16.4			.53	8.30					
SS713993	03/31/93	COPPER	15	.65	11.5			.63	26.00					
SS715293	12/03/92	COPPER	15.7	1.1	14.4			1.1	8.60					
SS715493	12/03/92	COPPER	15.3	1.2	14.2			1.1	7.50					
SS715793	03/31/93	COPPER	17.4	.62	13.3			.63	26.70					
SS716393	12/09/92	COPPER	20	.68	13.2			.66	41.00					
SS717393	12/09/92	COPPER	22.1	.56	18.7			.49	16.70					
SS700093	12/18/92	COPPER	12.4	.59	12.5			.61	0.80					
SS700293	04/08/93	COPPER	17.3	0.63	14.4			0.58	18.30					
SS700493	12/17/92	COPPER	9	1.5	10.2			1.3	13.00					
SS701793	04/07/93	COPPER	14.4	0.69	12.8			0.57	11.80					
SS701893	12/17/92	COPPER	13	.64	12.5			.57	4.00					
SS702293	04/06/93	COPPER	12.4	.67	10.7			.66	14.70					
SS702693	12/16/92	COPPER	12.2	.54	12.6			.55	3.20					
SS703693	12/16/92	COPPER	15.2	.58	16			.63	5.00					
SS703793	04/07/93	COPPER	11.4	.57	12.2			.72	6.80					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS704693	12/15/92	COPPER	12.9	.54	13.1	.58	1.50							
SS705893	12/15/92	COPPER	15.8	.6	17.1	.54	7.90							
SS706893	12/14/92	COPPER	12.5	1	12.2	1.1	2.40							
SS707993	12/11/92	COPPER	16.3	1.2	16.6	1.3	1.80							
SS708093	12/14/92	COPPER	15.8	1.2	15.8	1.3	0.00							
SS708193	04/12/93	COPPER	17.0	0.64	15.2	0.64	11.20							
SS708593	04/13/93	COPPER	17.3	0.62	15.7	0.59	9.70							
SS710793	12/11/92	COPPER	16	1.2	15.9	1.1	1.00							
SS711993	12/10/92	COPPER	20.9	1.4	26	1.5	22.00							
SS712393	12/10/92	COPPER	14.4	1.2	16.1	1.3	11.10							
SS719993	04/12/93	COPPER	18.5	0.56	19.9	0.62	7.30							
SS717693	03/06/93	COPPER	12.7	.58	14.7	.62	14.60							
SS719093	03/01/93	COPPER	10.5	.64	14.4	.63	31.30	29	1	11.52	10.00	86.80		
SS713693	12/02/92	IRON	14400	1.1	14000	1	3.00							
SS713993	03/31/93	IRON	14200	1.7	12900	1.6	10.00							
SS715293	12/03/92	IRON	14100	.94	14200	.99	1.00							
SS715493	12/03/92	IRON	15200	1	12300	1	21.00							
SS715793	03/31/93	IRON	14500	1.6	12700	1.6	13.00							
SS716393	12/09/92	IRON	11800	1.1	10600	1.1	11.00							
SS717393	12/09/92	IRON	17300	1.1	15300	.96	12.00							
SS700093	12/18/92	IRON	14800	1.1	15600	1.2	5.00							
SS700293	04/08/93	IRON	25100	1.7	21600	1.6	15.00							
SS700493	12/17/92	IRON	11000	1.3	11100	1.2	1.00							
SS701793	04/07/93	IRON	20000	1.9	17600	1.5	13.00							
SS701893	12/17/92	IRON	12800	1.3	10700	1.1	18.00							
SS702293	04/08/93	IRON	13500	1.7	12300	1.7	9.00							
SS702693	12/18/92	IRON	10500	1.1	11100	1.1	6.00							
SS703693	12/16/92	IRON	10600	1.1	11000	1.2	4.00							
SS703793	04/07/93	IRON	5710	1.5	6390	1.9	11.00							
SS704693	12/15/92	IRON	10600	1	10200	1.1	4.00							
SS705893	12/15/92	IRON	11000	1.2	13300	1	19.00							
SS706893	12/14/92	IRON	17100	.89	16000	.94	7.00							
SS707993	12/11/92	IRON	14800	1.1	14800	1.1	0.00							
SS708093	12/14/92	IRON	12200	1.1	12900	1.2	6.00							
SS708193	04/12/93	IRON	17600	1.7	15100	1.7	15.00							
SS708593	04/13/93	IRON	13800	1.7	13700	1.6	1.00							
SS710793	12/11/92	IRON	13100	1	13100	.95	0.00							
SS711993	12/10/92	IRON	9840	1.3	10700	1.4	8.00							
SS712393	12/10/92	IRON	14000	1.2	15900	1.2	13.00							
SS719993	04/12/93	IRON	17600	1.5	18100	1.7	3.00							
SS717693	03/06/93	IRON	12200	1.5	15400	1.6	23.00							
SS719093	03/01/93	IRON	10700	1.6	15100	1.6	34.00	29	0	9.86	7.97	80.79		
SS713693	12/02/92	LEAD	20.2	1.5	14.8	3	30.90							
SS713993	03/31/93	LEAD	16.9	1	15	1	12.00							
SS715293	12/03/92	LEAD	1.7	.26	16.7	2.4	160.90							
SS715493	12/03/92	LEAD	10.4	2.9	15.5	3.1	39.40							
SS715793	03/31/93	LEAD	13.9	.45	11.2	1	21.50							
SS716393	12/09/92	LEAD	11.1	2.3	12.8	2.6	14.20							

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS717393	12/09/92	LEAD	16.7		1.2	15.2		1	9.40					
SS700093	12/18/92	LEAD	13		.22	17.2		.84	28.00					
SS700293	04/08/93	LEAD	14.2		1.3	15.5		1.3	8.80					
SS700493	12/17/92	LEAD	44.3		6.2	39		5.8	13.00					
SS701793	04/07/93	LEAD	21.6		1.3	13.0		1.2	49.70					
SS701893	12/17/92	LEAD	41.9		2.6	40.5		2.4	3.40					
SS702293	04/06/93	LEAD	19.2		1.4	14.8		1.3	25.90					
SS702693	12/16/92	LEAD	36.6		2.2	38.1		2.3	4.00					
SS703693	12/16/92	LEAD	20.5		1.2	22.3		1.2	8.40					
SS703793	04/07/93	LEAD	18.4		1.3	17.8		1.4	3.30					
SS704693	12/15/92	LEAD	15.2		1	15.9		.83	4.60					
SS705893	12/15/92	LEAD	20		1.2	18.8		1.2	6.00					
SS706893	12/14/92	LEAD	8.9		.22	11.1		1.1	22.00					
SS707993	12/11/92	LEAD	17.5		.99	21.8		.9	21.90					
SS708093	12/14/92	LEAD	36.5		1.2	37.8		1.2	3.50					
SS708193	04/12/93	LEAD	32.0		1.7	32.6		1.5	1.60					
SS708593	04/13/93	LEAD	22.3		1.8	24.6		3.7	9.80					
SS710793	12/11/92	LEAD	20.3		.8	20.9		1	2.90					
SS711993	12/10/92	LEAD	40		2.9	25.5		1.2	44.00					
SS712393	12/10/92	LEAD	38.6		2.4	27.2		2.8	34.70					
SS719993	04/12/93	LEAD	14.6		1.1	49.4		1.2	108.80					
SS717693	03/06/93	LEAD	7.7		.2	10.8		1	33.50					
SS719093	03/01/93	LEAD	11.4		2.2	11		1.1	4.00	29	5	25.17	34.04	135.24
SS713993	03/31/93	LITHIUM	6.7		.76	7.6		.74	12.60					
SS715793	03/31/93	LITHIUM	7.5		.72	6.8		.74	9.80					
SS700293	04/08/93	LITHIUM	13.3		0.70	12.9		0.64	3.10					
SS701793	04/07/93	LITHIUM	10.3		0.77	8.5		0.64	19.10					
SS702293	04/06/93	LITHIUM	6.1		.78	5.3		.76	14.00					
SS703793	04/07/93	LITHIUM	4.6		.67	4.6		.84	0.00					
SS708193	04/12/93	LITHIUM	8.4		0.71	7.7		0.71	8.70					
SS708593	04/13/93	LITHIUM	7.0		0.69	8.2		0.65	15.80					
SS719993	04/12/93	LITHIUM	9.0		0.62	8.5		0.69	5.70					
SS717693	03/06/93	LITHIUM	8.2		.68	8.5		.73	3.60					
SS719093	03/01/93	LITHIUM	6.2		.74	8		.74	25.00	11	0	10.67	7.54	70.62
SS713693	12/02/92	MAGNESIUM	2630		7.2	2440		6.6	7.00					
SS713993	03/31/93	MAGNESIUM	2460		8.7	2230		8.5	10.00					
SS715293	12/03/92	MAGNESIUM	3150		10.5	3280		11.1	4.00					
SS715493	12/03/92	MAGNESIUM	3480		11.5	2780		11.2	22.00					
SS715793	03/31/93	MAGNESIUM	2970		8.3	2560		8.4	15.00					
SS716393	12/09/92	MAGNESIUM	3040		7.1	2660		6.9	13.00					
SS717393	12/09/92	MAGNESIUM	4160		6.9	3350		6	22.00					
SS700093	12/18/92	MAGNESIUM	3320		7.2	2800		7.6	17.00					
SS700293	04/08/93	MAGNESIUM	6090		8.3	5420		7.6	12.00					
SS700493	12/17/92	MAGNESIUM	2780		14.6	2920		12.9	5.00					
SS701793	04/07/93	MAGNESIUM	3270		9.1	2720		7.5	18.00					
SS701893	12/17/92	MAGNESIUM	2090		7.9	1990		7	5.00					
SS702293	04/06/93	MAGNESIUM	2430		8.9	2010		8.7	19.00					
SS702693	12/16/92	MAGNESIUM	1760		6.7	1880		6.7	7.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS703693	12/16/92	MAGNESIUM	2410	7.1	2550	7.7	6.00							
SS703793	04/07/93	MAGNESIUM	2220	7.7	2230	9.6	0.00							
SS704693	12/15/92	MAGNESIUM	2160	6.6	2130	7.2	1.00							
SS705893	12/15/92	MAGNESIUM	2170	7.4	2320	6.6	7.00							
SS706893	12/14/92	MAGNESIUM	2470	9.9	2170	10.5	13.00							
SS707993	12/11/92	MAGNESIUM	2890	11.9	2690	12.6	7.00							
SS708093	12/14/92	MAGNESIUM	2750	12.2	2900	13.1	5.00							
SS708193	04/12/93	MAGNESIUM	2950	8.4	2680	8.4	10.00							
SS708593	04/13/93	MAGNESIUM	2730	8.2	2940	7.7	7.00							
SS710793	12/11/92	MAGNESIUM	2780	11.6	2850	10.6	2.00							
SS711993	12/10/92	MAGNESIUM	1740	14	1870	14.4	7.00							
SS712393	12/10/92	MAGNESIUM	2670	12.2	3150	12.4	16.00							
SS719993	04/12/93	MAGNESIUM	3280	7.3	3480	8.1	6.00							
SS717693	03/06/93	MAGNESIUM	2360	7.8	2590	8.3	9.00							
SS719093	03/01/93	MAGNESIUM	2080	8.6	2760	8.4	28.00	29	0	10.34	6.89	66.59		
SS713693	12/02/92	MANGANESE	234	.51	227	.47	3.00							
SS713993	03/31/93	MANGANESE	242	.54	170	.52	35.00							
SS715293	12/03/92	MANGANESE	223	.17	213	.18	5.00							
SS715493	12/03/92	MANGANESE	245	.19	174	.18	34.00							
SS715793	03/31/93	MANGANESE	220	.51	210	.52	5.00							
SS716393	12/09/92	MANGANESE	199	.51	182	.49	9.00							
SS717393	12/09/92	MANGANESE	277	.49	267	.43	4.00							
SS700093	12/18/92	MANGANESE	222	.51	214	.54	4.00							
SS700293	04/08/93	MANGANESE	306	0.35	272	0.32	12.00							
SS700493	12/17/92	MANGANESE	553	.24	372	.21	39.00							
SS701793	04/07/93	MANGANESE	255	0.39	213	0.32	18.00							
SS701893	12/17/92	MANGANESE	266	.56	270	.5	1.00							
SS702293	04/06/93	MANGANESE	148	.55	96.7	.54	42.00							
SS702693	12/16/92	MANGANESE	227	.47	224	.48	1.00							
SS703693	12/16/92	MANGANESE	98	.5	153	.55	46.00							
SS703793	04/07/93	MANGANESE	20.9	.47	29.8	.69	36.10							
SS704693	12/15/92	MANGANESE	73.7	.47	74.1	.51	0.50							
SS705893	12/15/92	MANGANESE	49.6	.52	64.6	.47	26.30							
SS706893	12/14/92	MANGANESE	239	.16	272	.17	13.00							
SS707993	12/11/92	MANGANESE	252	.19	282	.21	11.00							
SS708093	12/14/92	MANGANESE	212	.2	211	.21	0.00							
SS708193	04/12/93	MANGANESE	316	0.35	280	0.36	12.00							
SS708593	04/13/93	MANGANESE	182	0.35	192	0.33	5.00							
SS710793	12/11/92	MANGANESE	182	.19	131	.17	33.00							
SS711993	12/10/92	MANGANESE	223	.6	225	.61	1.00							
SS712393	12/10/92	MANGANESE	271	.52	304	.53	11.00							
SS719993	04/12/93	MANGANESE	274	0.31	266	0.34	3.00							
SS717693	03/06/93	MANGANESE	185	.48	202	.51	9.00							
SS719093	03/01/93	MANGANESE	400	.53	161	.52	85.00	29	5	17.34	19.47	112.26		
SS713693	12/02/92	MERCURY	.1	U	.099	.09	U							
SS713993	03/31/93	MERCURY	.098	U	.098	.087	U							
SS715293	12/03/92	MERCURY	.077	U	.077	.09	U							
SS715493	12/03/92	MERCURY	.1	U	.1	.1	U							

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS715793	03/31/93	MERCURY	.096	U	.096	.081	U	.081	0.00					
SS716393	12/09/92	MERCURY	.12	U	.12	.12	U	.12	0.00					
SS717393	12/09/92	MERCURY	.11	U	.11	.11	U	.11	0.00					
SS700093	12/18/92	MERCURY	.11	U	.11	.11	U	.11	0.00					
SS700293	04/08/93	MERCURY	0.11	U	0.11	0.10	U	0.10	0.00					
SS700493	12/17/92	MERCURY	.12	U	.12	.1	U	.097	0.00					
SS701793	04/07/93	MERCURY	0.11	U	0.11	0.086	U	0.086	0.00					
SS701893	12/17/92	MERCURY	.1	U	.098	.11	U	.11	0.00					
SS702293	04/06/93	MERCURY	.12	U	.12	.11	U	.11	0.00					
SS702693	12/18/92	MERCURY	.12	U	.12	.099	U	.099	0.00					
SS703693	12/16/92	MERCURY	.11	U	.11	.093	U	.093	0.00					
SS703793	04/07/93	MERCURY	.098	U	.098	.11	U	.11	0.00					
SS704693	12/15/92	MERCURY	.12	U	.12	.09	U	.089	NC					
SS705693	12/15/92	MERCURY	.11	U	.11	.12	U	.12	0.00					
SS706893	12/14/92	MERCURY	.09	U	.092	.1	U	.096	0.00					
SS707993	12/11/92	MERCURY	.11	U	.11	.094	U	.094	0.00					
SS708093	12/14/92	MERCURY	.13	U	.13	.11	U	.11	0.00					
SS708193	04/12/93	MERCURY	0.082	U	0.082	0.097	U	0.097	0.00					
SS708593	04/13/93	MERCURY	0.093		0.087	0.12		0.12	25.35					
SS710793	12/11/92	MERCURY	.11	U	.11	.1	U	.1	0.00					
SS711993	12/10/92	MERCURY	.13	U	.13	.14	U	.14	0.00					
SS712393	12/10/92	MERCURY	.11	U	.11	.12	U	.12	0.00					
SS719993	04/12/93	MERCURY	0.10	U	0.10	0.091	U	0.091	0.00					
SS717693	03/06/93	MERCURY	.08	U	.08	.11	U	.11	0.00					
SS719093	03/01/93	MERCURY	.077	U	.077	.11	U	.11	0.00	28	0	0.91	4.79	529.15
SS713993	03/31/93	MOLYBDENUM	1.5	U	1.5	1.4	U	1.4	0.00					
SS715793	03/31/93	MOLYBDENUM	1.4	U	1.4	1.4	U	1.4	0.00					
SS700293	04/08/93	MOLYBDENUM	2.4	U	2.4	2.2	U	2.2	0.00					
SS701793	04/07/93	MOLYBDENUM	2.6	U	2.6	2.2	U	2.2	0.00					
SS702293	04/06/93	MOLYBDENUM	1.5	U	1.5	1.9	U	1.5	23.50					
SS703793	04/07/93	MOLYBDENUM	1.8		1.3	1.6	U	1.6	11.80					
SS708193	04/12/93	MOLYBDENUM	2.4	U	2.4	2.4	U	2.4	0.00					
SS708593	04/13/93	MOLYBDENUM	2.4	U	2.4	2.2	U	2.2	0.00					
SS719993	04/12/93	MOLYBDENUM	2.1	U	2.1	2.3	U	2.3	0.00					
SS717693	03/06/93	MOLYBDENUM	1.3	U	1.3	1.4	U	1.4	0.00					
SS719093	03/01/93	MOLYBDENUM	1.4	U	1.4	1.4	U	1.4	0.00	11	0	3.21	7.60	236.95
SS713693	12/02/92	NICKEL	13.3		4.7	12.4		4.3	7.00					
SS713993	03/31/93	NICKEL	13.9		2.5	10.5		2.4	27.90					
SS715293	12/03/92	NICKEL	10.2		1.3	10.6		1.4	3.80					
SS715493	12/03/92	NICKEL	12.7		1.4	9.1		1.4	33.00					
SS715793	03/31/93	NICKEL	13.2		2.3	13.3		2.4	0.80					
SS716393	12/09/92	NICKEL	8.5		4.6	9		4.5	6.00					
SS717393	12/09/92	NICKEL	16.2		4.6	13.6		3.9	17.40					
SS700093	12/18/92	NICKEL	12.1		4.7	12.6		4.9	4.00					
SS700293	04/08/93	NICKEL	16.4		3.5	15.4		3.2	6.30					
SS700493	12/17/92	NICKEL	9.2		1.8	8.4		1.6	9.10					
SS701793	04/07/93	NICKEL	15.3		3.9	13.7		3.2	11.00					
SS701893	12/17/92	NICKEL	9.3		5.2	8.5		4.6	9.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS702293	04/06/93	NICKEL	17.1	2.5	13.1	2.5	26.50							
SS702693	12/16/92	NICKEL	8.8	4.4	6.6	4.4	28.60							
SS703693	12/16/92	NICKEL	11.2	4.6	10.6	6	5.60							
SS703793	04/07/93	NICKEL	6.1	2.2	9.3	2.7	41.60							
SS704693	12/16/92	NICKEL	12.2	4.3	11.9	4.7	2.60							
SS705693	12/16/92	NICKEL	14.9	4.8	16.3	4.3	9.00							
SS706893	12/14/92	NICKEL	11.6	1.2	11.3	1.3	2.60							
SS707993	12/11/92	NICKEL	13.6	1.5	13.3	1.6	2.20							
SS708093	12/14/92	NICKEL	10.5	1.5	11.2	1.6	6.60							
SS708193	04/12/93	NICKEL	16.9	3.6	12.5	3.6	23.90							
SS708593	04/13/93	NICKEL	12.8	3.5	13.3	3.3	3.80							
SS710793	12/11/92	NICKEL	14.8	1.4	13.2	1.3	11.40							
SS7111993	12/10/92	NICKEL	7.9	5.5	7	5.6	12.00							
SS7112393	12/10/92	NICKEL	10.5	4.8	11.8	4.9	11.70							
SS7119993	04/12/93	NICKEL	14.5	3.1	14.5	3.5	0.00							
SS7117693	03/06/93	NICKEL	11.9	2.2	15.2	2.3	24.40							
SS7119093	03/01/93	NICKEL	8.6	2.4	13.4	2.4	43.60	29	2	13.49	12.32	91.37		
SS7113693	12/02/92	POTASSIUM	1700	190	1610	173	5.00							
SS7113993	03/31/93	POTASSIUM	1370	175	1590	170	15.00							
SS7115293	12/03/92	POTASSIUM	1820	103	1690	109	7.00							
SS7115493	12/03/92	POTASSIUM	2010	113	1490	109	30.00							
SS7115793	03/31/93	POTASSIUM	1530	166	1210	169	23.00							
SS7116393	12/09/92	POTASSIUM	1210	187	1190	181	2.00							
SS7117393	12/09/92	POTASSIUM	1710	180	1510	158	12.00							
SS700093	12/18/92	POTASSIUM	2530	190	2440	199	4.00							
SS700293	04/08/93	POTASSIUM	2980	235	3000	214	1.00							
SS700493	12/17/92	POTASSIUM	2230	143	2550	127	13.00							
SS701793	04/07/93	POTASSIUM	2770	258	2480	213	11.00							
SS701893	12/17/92	POTASSIUM	2280	208	2310	185	1.00							
SS702293	04/06/93	POTASSIUM	1400	179	1350	175	4.00							
SS702693	12/16/92	POTASSIUM	1890	176	2300	177	20.00							
SS703693	12/16/92	POTASSIUM	1150	187	1270	203	10.00							
SS703793	04/07/93	POTASSIUM	722	154	788	192	9.00							
SS704693	12/15/92	POTASSIUM	1240	174	1300	189	5.00							
SS705693	12/15/92	POTASSIUM	1020	194	1150	174	12.00							
SS706893	12/14/92	POTASSIUM	1630	96.8	1500	103	8.00							
SS707993	12/11/92	POTASSIUM	2460	117	2180	123	12.00							
SS708093	12/14/92	POTASSIUM	2170	119	2270	128	5.00							
SS708193	04/12/93	POTASSIUM	3060	237	2660	239	14.00							
SS708593	04/13/93	POTASSIUM	1240	232	1760	219	34.00							
SS710793	12/11/92	POTASSIUM	1860	113	1810	103	3.00							
SS7111993	12/10/92	POTASSIUM	2440	223	2640	228	8.00							
SS7112393	12/10/92	POTASSIUM	2550	194	3270	196	25.00							
SS7119993	04/12/93	POTASSIUM	2050	208	1880	230	9.00							
SS7117693	03/06/93	POTASSIUM	1610	156	1610	166	0.00							
SS7119093	03/01/93	POTASSIUM	1050	171	1490	169	35.00	29	0	11.62	9.68	83.29		
SS7113693	12/02/92	SELENIUM	.4	U	.4	.39	U	.39	0.00					
SS7113993	03/31/93	SELENIUM	.24	U	.24	.25	U	.25	0.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS716293	12/03/92	SELENIUM	.22	U	.22	.2	U	.2	0.00					
SS715493	12/03/92	SELENIUM	.24	U	.24	.26	U	.26	0.00					
SS716793	03/31/93	SELENIUM	.27	U	.27	.24	U	.24	0.00					
SS716393	12/09/92	SELENIUM	.38	U	.38	.46	U	.45	0.00					
SS717393	12/09/92	SELENIUM	.35	U	.35	.39	U	.31	10.81					
SS700093	12/18/92	SELENIUM	.43		.41	.52		.31	18.95					
SS700293	04/08/93	SELENIUM	0.27	U	0.27	0.29	U	0.29	0.00					
SS700493	12/17/92	SELENIUM	.54		.28	.67		.26	21.49					
SS701793	04/07/93	SELENIUM	1.2		0.28	1.3		0.26	8.00					
SS701893	12/17/92	SELENIUM	.9		.3	.77		.29	15.60					
SS702293	04/06/93	SELENIUM	1.3		.25	.38		.21	109.50					
SS702693	12/16/92	SELENIUM	.77		.39	.75		.41	2.63					
SS703693	12/16/92	SELENIUM	.43	U	.43	.44	U	.44	0.00					
SS703793	04/07/93	SELENIUM	.29	U	.29	.23	U	.23	0.00					
SS704693	12/15/92	SELENIUM	.39	U	.39	.37		.31	5.26					
SS705893	12/15/92	SELENIUM	.26	U	.26	.27	U	.27	0.00					
SS706893	12/14/92	SELENIUM	.37		.37	.38	U	.38	2.67					
SS707993	12/11/92	SELENIUM	.42	U	.42	.56		.38	28.57					
SS708093	12/14/92	SELENIUM	.62		.42	.6		.41	3.30					
SS708193	04/12/93	SELENIUM	0.52		0.27	0.41		0.26	23.66					
SS708593	04/13/93	SELENIUM	0.41		0.29	0.52		0.30	23.66					
SS710793	12/11/92	SELENIUM	.5		.34	.45	U	.45	10.50					
SS711993	12/10/92	SELENIUM	.8		.43	.74		.36	7.80					
SS712393	12/10/92	SELENIUM	.42		.35	.42	U	.42	0.00					
SS719993	04/12/93	SELENIUM	0.24	U	0.24	0.27	U	0.27	0.00					
SS717693	03/06/93	SELENIUM	.26	U	.26	.26	U	.26	0.00					
SS719093	03/01/93	SELENIUM	.29	U	.29	.43		.29	38.89	29	2	11.42	21.65	189.51
SS713993	03/31/93	SILICON	174		1.6	165		1.6	5.00					
SS715793	03/31/93	SILICON	265		1.4	222		1.4	18.00					
SS700293	04/08/93	SILICON	312		1.6	291		1.4	7.00					
SS701793	04/07/93	SILICON	329		1.7	313		1.4	5.00					
SS702293	04/06/93	SILICON	161		1.7	138		1.6	15.00					
SS703793	04/07/93	SILICON	162		1.4	176		1.8	14.00					
SS708193	04/12/93	SILICON	407		1.6	551		1.6	30.00					
SS708693	04/13/93	SILICON	389		1.6	392		1.5	1.00					
SS719993	04/12/93	SILICON	278		1.5	436		1.5	44.00					
SS717693	03/06/93	SILICON	200		1.5	256		1.6	25.00					
SS719093	03/01/93	SILICON	149		1.6	166		1.6	11.00	11	1	15.91	12.82	80.57
SS713693	12/02/92	SILVER	1.6		.63	1.1		.58	37.00					
SS713993	03/31/93	SILVER	.81	U	.81	.79	U	.79	0.00					
SS715293	12/03/92	SILVER	1.9		1.1	3.2		1.1	51.00					
SS715493	12/03/92	SILVER	1.8		1.2	1.1	U	1.1	48.30					
SS715793	03/31/93	SILVER	.79		.77	1.4		.78	56.70					
SS716393	12/09/92	SILVER	.63		.63	.6	U	.6	4.90					
SS717393	12/09/92	SILVER	1		.6	.81		.53	21.00					
SS700093	12/18/92	SILVER	.64		.64	.66		.66	3.08					
SS700293	04/08/93	SILVER	1.1	U	1.1	1.0	U	1.0	0.00					
SS700493	12/17/92	SILVER	1.5	U	1.5	1.3	U	1.3	0.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
SS701793	04/07/93	SILVER	1.2	U	1.2	1.0	U	1.0	0.00						
SS701893	12/17/92	SILVER	1.1	.69	.83	.81	U	.81	0.00						
SS702293	04/06/93	SILVER	.83	U	.83	.81	U	.81	0.00						
SS702693	12/16/92	SILVER	.81	.59	.81	.8	U	.59	1.20						
SS703693	12/18/92	SILVER	.62	U	.62	.81	U	.68	26.57						
SS703793	04/07/93	SILVER	.71	U	.71	.89	U	.89	0.00						
SS704693	12/15/92	SILVER	.58	U	.58	.73	U	.63	22.90						
SS705893	12/15/92	SILVER	.65	U	.65	.65	U	.58	0.00						
SS706893	12/14/92	SILVER	1	U	1	1.1	U	1.1	0.00						
SS707993	12/11/92	SILVER	1.2	U	1.2	1.3	U	1.3	0.00						
SS708093	12/14/92	SILVER	1.2	U	1.2	1.3	U	1.3	0.00						
SS708193	04/12/93	SILVER	1.1	U	1.1	1.1	U	1.1	0.00						
SS708593	04/13/93	SILVER	1.1	U	1.1	1.0	U	1.0	0.00						
SS710793	12/11/92	SILVER	1.2	U	1.2	1.1	U	1.1	0.00						
SS711993	12/10/92	SILVER	1.8		1.4	2		1.5	11.00						
SS712393	12/10/92	SILVER	2.1		1.2	1.9		1.3	10.00						
SS719993	04/12/93	SILVER	0.99	U	0.99	1.1	U	1.1	0.00						
SS717693	03/06/93	SILVER	.72	U	.72	.77	U	.77	0.00						
SS719093	03/01/93	SILVER	.79	U	.79	.78	U	.78	1.27	29	4	10.96	17.35	158.23	
SS713693	12/02/92	SODIUM	121		6.9	119		6.3	2.00						
SS713993	03/31/93	SODIUM	109		13.8	74.8		13.5	37.00						
SS715293	12/03/92	SODIUM	208		11.3	103		11.9	68.00						
SS715493	12/03/92	SODIUM	157		12.4	200		12	24.00						
SS715793	03/31/93	SODIUM	197		13.1	143		13.4	32.00						
SS716393	12/09/92	SODIUM	179		6.8	121		6.6	39.00						
SS717393	12/09/92	SODIUM	416		6.6	263		5.8	45.00						
SS700093	12/18/92	SODIUM	329		6.9	366		7.2	11.00						
SS700293	04/08/93	SODIUM	101		8.7	97.3		7.9	4.00						
SS700493	12/17/92	SODIUM	271		15.7	297		13.9	9.00						
SS701793	04/07/93	SODIUM	64.9		9.6	67.7		7.9	4.20						
SS701893	12/17/92	SODIUM	38.7		7.6	38		6.7	2.00						
SS702293	04/06/93	SODIUM	30.5		14.1	19.7		13.8	43.00						
SS702693	12/16/92	SODIUM	37.6		6.4	45.8		6.4	19.70						
SS703693	12/16/92	SODIUM	38.2		6.8	58.7		7.4	42.30						
SS703793	04/07/93	SODIUM	198		12.2	185		15.2	7.00						
SS704693	12/15/92	SODIUM	127		6.3	156		6.9	20.00						
SS706893	12/15/92	SODIUM	234		7.1	236		6.3	0.00						
SS706893	12/14/92	SODIUM	24.8		10.6	23.7		11.3	4.50						
SS707993	12/11/92	SODIUM	61.3		12.8	63.3		13.6	3.20						
SS708093	12/14/92	SODIUM	39.8		13.1	32		14.1	22.00						
SS708193	04/12/93	SODIUM	60.1		8.8	57.1		8.8	5.10						
SS708593	04/13/93	SODIUM	362		8.6	282		8.1	26.00						
SS710793	12/11/92	SODIUM	39.9		12.4	32.2		11.4	21.40						
SS711993	12/10/92	SODIUM	39.4		15.1	40.5		15.4	2.80						
SS712393	12/10/92	SODIUM	39.9		13.1	55.1		13.3	32.00						
SS719993	04/12/93	SODIUM	196		7.7	238		8.5	19.00						
SS717693	03/06/93	SODIUM	80.1		12.4	78.9		13.1	1.50						
SS719093	03/01/93	SODIUM	93.6		13.5	184		13.4	65.00	29	7	21.06	19.12	90.82	

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS713993	03/31/93	STRONTIUM	38.8		1.2	35.2		1.2	9.70					
SS715793	03/31/93	STRONTIUM	63.4		1.2	59.1		1.2	7.00					
SS700293	04/08/93	STRONTIUM	28.4		0.40	32.4		0.36	13.20					
SS701793	04/07/93	STRONTIUM	46.3		0.44	41.0		0.36	12.10					
SS702293	04/06/93	STRONTIUM	38.7		1.3	36		1.2	7.00					
SS703793	04/07/93	STRONTIUM	49.4		1.1	54		1.4	9.00					
SS708193	04/12/93	STRONTIUM	48.1		0.40	46.5		0.40	3.40					
SS708593	04/13/93	STRONTIUM	79.6		0.39	71.4		0.37	10.70					
SS719993	04/12/93	STRONTIUM	45.0		0.35	47.1		0.39	4.60					
SS717693	03/06/93	STRONTIUM	19.8		1.1	22.4		1.2	12.30					
SS719093	03/01/93	STRONTIUM	57.4		1.2	72.3		1.2	23.00	11	0	10.18	6.30	52.05
SS713693	12/02/92	THALLIUM	.4	U	.4	.39	U	.39	0.00					
SS713993	03/31/93	THALLIUM	.34	U	.34	.35	U	.35	0.00					
SS716293	12/03/92	THALLIUM	.35	U	.35	.31	U	.31	0.00					
SS715493	12/03/92	THALLIUM	.37	U	.37	.41	U	.41	0.00					
SS716793	03/31/93	THALLIUM				.34	U	.34	NC					
SS716393	12/09/92	THALLIUM	.38	U	.38	.45	U	.45	0.00					
SS717393	12/09/92	THALLIUM	.39	U	.39	.35	U	.35	0.00					
SS700093	12/18/92	THALLIUM	.46	U	.46	.36	U	.36	0.00					
SS700293	04/08/93	THALLIUM	0.39	U	0.39	0.40	U	0.40	0.00					
SS700493	12/17/92	THALLIUM	.44	U	.44	.41	U	.41	0.00					
SS701793	04/07/93	THALLIUM	0.39	U	0.39	0.36	U	0.36	0.00					
SS701893	12/17/92	THALLIUM	.44	U	.44	.42	U	.42	0.00					
SS702293	04/06/93	THALLIUM				.3	U	.3	NC					
SS702693	12/16/92	THALLIUM	.37	U	.37	.39	U	.39	0.00					
SS703693	12/16/92	THALLIUM	.41	U	.41	.42	U	.42	0.00					
SS703793	04/07/93	THALLIUM	.41	U	.41	.32	U	.32	0.00					
SS704693	12/15/92	THALLIUM	.44	U	.44	.35	U	.35	0.00					
SS705893	12/15/92	THALLIUM	.41	U	.41	.41	U	.41	0.00					
SS706893	12/14/92	THALLIUM	.35	U	.35	.35	U	.35	0.00					
SS707993	12/11/92	THALLIUM	.42	U	.42	.38	U	.38	0.00					
SS708093	12/14/92	THALLIUM	.4	U	.4	.38	U	.38	0.00					
SS708193	04/12/93	THALLIUM	0.39	U	0.39	0.35	U	0.35	0.00					
SS708593	04/13/93	THALLIUM	0.41	U	0.41	0.42	U	0.42	0.00					
SS710793	12/11/92	THALLIUM	.34	U	.34	.45	U	.45	0.00					
SS711993	12/10/92	THALLIUM	.49	U	.49	.41	U	.41	0.00					
SS712393	12/10/92	THALLIUM	.4	U	.4	.47	U	.47	0.00					
SS719993	04/12/93	THALLIUM	0.32	U	0.32	0.36	U	0.36	0.00					
SS717693	03/06/93	THALLIUM	.32	U	.32	.32	U	.32	0.00					
SS719093	03/01/93	THALLIUM	.36	U	.36	.36	U	.36	0.00	27	0			
SS713993	03/31/93	TIN	3.7	U	3.7	3.6	U	3.6	0.00					
SS715793	03/31/93	TIN	3.6	U	3.6	3.6	U	3.6	0.00					
SS700293	04/08/93	TIN	5.0	U	5.0	4.6	U	4.6	0.00					
SS701793	04/07/93	TIN	5.4	U	5.4	4.5	U	4.5	0.00					
SS702293	04/06/93	TIN	3.8	U	3.8	3.7	U	3.7	0.00					
SS703793	04/07/93	TIN	3.3	U	3.3	4.1	U	4.1	0.00					
SS708193	04/12/93	TIN	5.0	U	5.0	6.4	U	5.0	24.60					
SS708593	04/13/93	TIN	4.9	U	4.9	4.6	U	4.6	0.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS719993	04/12/93	TIN	5.6		4.4	9.9		4.9	55.50					
SS717693	03/06/93	TIN	3.4	U	3.4	3.6	U	3.6	0.00					
SS719093	03/01/93	TIN	3.7	U	3.7	3.6	U	3.6	0.00	11	1	7.28	17.61	241.87
SS713693	12/02/92	VANADIUM	32.8		.8	31.5		.73	4.00					
SS713993	03/31/93	VANADIUM	28.5		.72	27.8		.7	2.50					
SS715293	12/03/92	VANADIUM	29.9		.71	29.9		.75	0.00					
SS715493	12/03/92	VANADIUM	32.9		.77	27.2		.75	19.00					
SS715793	03/31/93	VANADIUM	32.1		.68	26.6		.69	18.70					
SS716393	12/09/92	VANADIUM	24		.79	26		.77	8.00					
SS717393	12/09/92	VANADIUM	33.8		.76	30.9		.67	9.00					
SS700093	12/18/92	VANADIUM	35.8		.81	32.4		.84	10.00					
SS700293	04/08/93	VANADIUM	54.3		1.2	50.5		1.1	7.30					
SS700493	12/17/92	VANADIUM	26.8		.98	26.1		.87	1.20					
SS701793	04/07/93	VANADIUM	45.0		1.3	39.8		1.1	12.30					
SS701893	12/17/92	VANADIUM	27.1		.88	24.8		.78	8.90					
SS702293	04/06/93	VANADIUM	23.6		.73	22.9		.72	3.00					
SS702693	12/16/92	VANADIUM	27		.74	27.4		.75	1.00					
SS703693	12/16/92	VANADIUM	28.3		.79	30		.86	6.00					
SS703793	04/07/93	VANADIUM	9.7		.63	11.7		.79	18.70					
SS704693	12/15/92	VANADIUM	21.7		.74	21.2		.8	NC					
SS705693	12/15/92	VANADIUM	18.9		.82	20.6		.74	8.60					
SS706893	12/14/92	VANADIUM	43.8		.67	41.5		.71	5.40					
SS707993	12/11/92	VANADIUM	43.8		.8	42.4		.85	3.20					
SS708093	12/14/92	VANADIUM	42.4		.82	47.3		.88	10.90					
SS708193	04/12/93	VANADIUM	41.8		1.2	36.7		1.2	13.00					
SS708593	04/13/93	VANADIUM	48.7		1.2	41.3		1.1	16.40					
SS710793	12/11/92	VANADIUM	37.2		.78	36.5		.71	1.90					
SS7111993	12/10/92	VANADIUM	24.2		.94	25.4		.96	4.80					
SS712393	12/10/92	VANADIUM	33.7		.82	36.4		.83	7.70					
SS719993	04/12/93	VANADIUM	42.5		1.0	41.3		1.1	2.90					
SS717693	03/06/93	VANADIUM	23		.64	32.5		.68	34.00					
SS719093	03/01/93	VANADIUM	22.8		.7	28.6		.69	22.60	28	0	9.32	7.83	84.05
SS713693	12/02/92	ZINC	41.6		.51	42.2		.47	1.70					
SS713993	03/31/93	ZINC	39.1		.54	34.9		.52	11.40					
SS715293	12/03/92	ZINC	41		.79	41.1		.84	0.00					
SS715493	12/03/92	ZINC	47		.87	33.9		.84	32.00					
SS715793	03/31/93	ZINC	41.9		.51	36.3		.52	14.30					
SS716393	12/09/92	ZINC	31.3		.51	34.1		.49	8.60					
SS717393	12/09/92	ZINC	44.2		.49	41		.43	8.00					
SS700093	12/18/92	ZINC	49.5		.51	49.4		.54	0.20					
SS700293	04/08/93	ZINC	55.1		0.91	59.6		0.83	7.80					
SS700493	12/17/92	ZINC	59.1		1.1	66.3		.98	11.50					
SS701793	04/07/93	ZINC	62.1		1.0	53.9		0.83	14.10					
SS701893	12/17/92	ZINC	63.3		.56	60.3		.5	4.90					
SS702293	04/06/93	ZINC	56.4		.55	47.3		.54	17.60					
SS702693	12/16/92	ZINC	46.1		.47	49.4		.48	6.90					
SS703693	12/16/92	ZINC	45.8		.5	47.5		.55	3.60					
SS703793	04/07/93	ZINC	46		.47	47.4		.59	3.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
SS704693	12/15/92	ZINC	62.6	.47	51.6	.51		1.90							
SS705893	12/15/92	ZINC	69.1	.52	76	.47		10.00							
SS706893	12/14/92	ZINC	36.6	.75	33.7	.79		8.30							
SS707993	12/11/92	ZINC	51.6	.9	49.7	.95		3.80							
SS708093	12/14/92	ZINC	51.9	.92	53.7	.99		3.40							
SS708193	04/12/93	ZINC	56.3	0.92	52.8	0.93		6.40							
SS708593	04/13/93	ZINC	49.6	0.90	47.6	0.85		3.90							
SS710793	12/11/92	ZINC	59.6	.87	61.9	.8		3.80							
SS711993	12/10/92	ZINC	87.9	1.1	78	1.1		12.00							
SS712393	12/10/92	ZINC	58.5	.92	69	.93		18.00							
SS719993	04/12/93	ZINC	53.5	0.81	54.4	0.89		1.70							
SS717693	03/06/93	ZINC	27	.48	32.6	.51		19.00							
SS719093	03/01/93	ZINC	27.9	.63	41.8	.52		39.90	29	1	9.51	9.06	95.30		
SS713693	12/02/92	AMERICIUM-241	.01879	J	0	.0141		.007	28.52						
SS713993	03/31/93	AMERICIUM-241	.01722		.002	.01613		.005	6.54						
SS715293	12/03/92	AMERICIUM-241	.00477		.006	.0116		.005	83.45						
SS715493	12/03/92	AMERICIUM-241	.0272		.000	.0143		.000	62.17						
SS715793	03/31/93	AMERICIUM-241	.02868		.002	.01881		.00430164	41.57						
SS716393	12/09/92	AMERICIUM-241	.0131		.000	.0167		.007	18.06						
SS717393	12/09/92	AMERICIUM-241	.011		.000	.0107		.000	2.77						
SS700093	12/18/92	AMERICIUM-241	.009139	J	0	.01518	J	0	49.68						
SS700293	04/08/93	AMERICIUM-241	.002526	J	.00502166	.002154	J	.00428081	15.90						
SS700493	12/17/92	AMERICIUM-241	.02011		0	.02025		0	0.69						
SS701793	04/07/93	AMERICIUM-241	.006691		.00226323	.008451		.00207885	23.26						
SS701893	12/17/92	AMERICIUM-241	0	U	.03	.016	J	.008	60.87						
SS702293	04/06/93	AMERICIUM-241	.005351		.00241348	.008149		.0024503	41.45						
SS702693	12/16/92	AMERICIUM-241	.01205	J	0.000	.03049		.0000	86.69						
SS703693	12/16/92	AMERICIUM-241	.0009065	J	0	.002677	J	0	98.81						
SS703793	04/07/93	AMERICIUM-241	.003471		.0023481	.002548		.00229865	30.67						
SS704693	12/15/92	AMERICIUM-241	.004402	J	0.000	.0009282	J	0.000	130.34						
SS706893	12/14/92	AMERICIUM-241	.004465	J	.005	.001753	J	0	87.05						
SS707993	12/11/92	AMERICIUM-241	.008359	J	0	.01334	J	0	45.91						
SS708093	12/14/92	AMERICIUM-241	.02309		0	.02296		0	0.56						
SS708193	04/12/93	AMERICIUM-241	.00961		.00288956	.01212		.00460545	23.10						
SS708593	04/13/93	AMERICIUM-241	.005763		.00451281	.006976		.00474345	19.04						
SS710793	12/11/92	AMERICIUM-241	.01456	J	0	.008271	J	0	55.09						
SS711993	12/10/92	AMERICIUM-241	.05076		0	.04398		0	14.31						
SS712393	12/10/92	AMERICIUM-241	.04942		0	.03223		.003	42.11						
SS719993	04/12/93	AMERICIUM-241	.01615		.00230059	.0121		.0023388-	28.67						
SS717693	03/06/93	AMERICIUM-241	.04605		.002	.04168		.007	9.96						
SS719093	03/01/93	AMERICIUM-241	.02891		.003	.05193		.00442862	66.86	28	14	41.93	33.00	78.69	
SS700293	04/08/93	CESIUM-134	.02017	J	.0533	-.333	J	.0587	226.79						
SS701793	04/07/93	CESIUM-134	-.0185	J	.0485	-.0264	J	.0576	35.19						
SS702293	04/06/93	CESIUM-134	-.299	J	.064	-.0134	J	.0521	182.84						
SS703793	04/07/93	CESIUM-134	-.342	J	.0539	-.0536	J	.05994	145.80						
SS708193	04/12/93	CESIUM-134	-.00674	J	0	-.0046	J	.0453	37.74						
SS708593	04/13/93	CESIUM-134	-.0245	J	.04485	-.000172	J	.05216	197.21						
SS719993	04/12/93	CESIUM-134	-.0844	J	.0521	.008682	J	.0499	245.86	7	7	152.92	85.62	55.99	

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS713693	12/02/92	CESIUM-137	.1214		.06	.0861			34.02					
SS713993	03/31/93	CESIUM-137	.0256	J	.584	.01378	J	.0647	60.03					
SS715293	12/03/92	CESIUM-137	.0934	U		.0876	U		0.00					
SS715493	12/03/92	CESIUM-137	.0928	U		.0666			200.00					
SS715793	03/31/93	CESIUM-137	.00396	J	.0557	.05655		.0522	173.82					
SS716393	12/09/92	CESIUM-137	.0911	U		.086	U		0.00					
SS717393	12/09/92	CESIUM-137	.097	U		.0886	U		0.00					
SS700093	12/18/92	CESIUM-137	.2697		.1	.2895			.1	10.85				
SS700293	04/08/93	CESIUM-137	.05667	X	0.05	.05303	J	.06	6.64					
SS700493	12/17/92	CESIUM-137	.9392		.07	1.03		.09	9.22					
SS701793	04/07/93	CESIUM-137	.335	X	0	.1992	X	0	50.84					
SS701893	12/17/92	CESIUM-137	.9			.55			48.30					
SS702293	04/06/93	CESIUM-137	.06035	J	.0867	.07572	X	0	22.59					
SS702693	12/16/92	CESIUM-137	.685		.1	.6743		.1	1.57					
SS703693	12/16/92	CESIUM-137	.06086	J	.1	.09176	J	.1	40.49					
SS703793	04/07/93	CESIUM-137	.025	J	.0589	.008073	J	.0643	390.77					
SS704693	12/15/92	CESIUM-137	.0149	J	.1	.0104	J	.1	35.57					
SS705893	12/15/92	CESIUM-137	.0213	J	.1	.018	J	.1	16.79					
SS706893	12/14/92	CESIUM-137	.04288	J	.04	.0347	J	.05	21.09					
SS707993	12/11/92	CESIUM-137	.3206		.1	.3514		.1	9.17					
SS708093	12/14/92	CESIUM-137	1.145		.1	1.134		.1	0.97					
SS708193	04/12/93	CESIUM-137	.4069		.0517	.3069	X	0	28.02					
SS708593	04/13/93	CESIUM-137	.1086	X	0	.1747	X	0	46.66					
SS710793	12/11/92	CESIUM-137	.7799		.1	.6844		.1	13.04					
SS711993	12/10/92	CESIUM-137	1.376		.07	1.243		.06	10.16					
SS712393	12/10/92	CESIUM-137	2.01		.09	2.345		.07	15.38					
SS719993	04/12/93	CESIUM-137	.00459	J	.0657	.03795	J	.0627	156.84					
SS717693	03/06/93	CESIUM-137	.005539	J	.0552	.00188	J	.0536	405.52					
SS719093	03/01/93	CESIUM-137	.05671	J	.0672	.03307	J	63.9	51.00	29	12	64.12	105.72	164.90
SS713693	12/02/92	GROSS ALPHA	1.332	J	3.02	20		2.1	175.00					
SS713993	03/31/93	GROSS ALPHA	17.55		3.16312	19.72		3.22316	11.64					
SS715293	12/03/92	GROSS ALPHA	15.4		2.1	22.2		2.1	36.20					
SS715493	12/03/92	GROSS ALPHA	19.6		1.8	29.6		1.8	40.70					
SS715793	03/31/93	GROSS ALPHA	13.29		2.61817	14.3		2.08661	7.30					
SS716393	12/09/92	GROSS ALPHA	14.6		2.5	23		2.1	45.00					
SS717393	12/09/92	GROSS ALPHA	17.5		2.7	17.3		2.9	1.10					
SS700093	12/18/92	GROSS ALPHA	16.75		2.6	16.93		2.8	1.07					
SS700293	04/08/93	GROSS ALPHA	10.36		3.28184	11.09		3.39822	6.81					
SS700493	12/17/92	GROSS ALPHA	14.61		2.1	18.11		2.72	21.39					
SS701793	04/07/93	GROSS ALPHA	17.88		2.77029	10.67		2.53945	50.51					
SS701893	12/17/92	GROSS ALPHA	13		4	13		8	0.00					
SS702293	04/06/93	GROSS ALPHA	10.99		2.83879	9.471		2.97994	14.86					
SS702693	12/16/92	GROSS ALPHA	18.41		2.5	14.13		3.5	14.93					
SS703693	12/16/92	GROSS ALPHA	19.22		2.4	16.21		2.2	16.99					
SS703793	04/07/93	GROSS ALPHA	12.53		3.34059	10.06		3.04609	21.87					
SS704693	12/15/92	GROSS ALPHA	13.35		2.5	9.995		3.5	28.74					
SS705893	12/15/92	GROSS ALPHA	16.1		2.2	16.0		2.6	0.60					
SS706893	12/14/92	GROSS ALPHA	16.74		3	15.24		3	9.38					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
SS707993	12/11/92	GROSS ALPHA	15.64		2.1	16.24		2.4	3.76						
SS708093	12/14/92	GROSS ALPHA	14.08		2.0	14.39		2.4	2.18						
SS708193	04/12/93	GROSS ALPHA	14.72		3.10666	18.9		2.45834	24.90						
SS708593	04/13/93	GROSS ALPHA	12.78		3.04479	13.08		2.62128	2.32						
SS710793	12/11/92	GROSS ALPHA	16.21		2.81	15.71		2.80	3.13						
SS711993	12/10/92	GROSS ALPHA	18.1		1.88	20.66		2.84	13.20						
SS712393	12/10/92	GROSS ALPHA	22.06		2.05	17.31		2.41	24.13						
SS719993	04/12/93	GROSS ALPHA	13.38		2.53847	14.43		2.97387	7.65						
SS717693	03/08/93	GROSS ALPHA	12.12		2.21	10.96		2.91	10.05						
SS719093	03/01/93	GROSS ALPHA	10.94		2.49	16		2.18	38.00	29	6	21.84	32.83	150.31	
SS713893	12/02/92	GROSS BETA	30.3		2.42	22.5		5.0	29.50						
SS713993	03/31/93	GROSS BETA	29.17		2.11597	31.28		2.03241	6.98						
SS715293	12/03/92	GROSS BETA	30.9		5.4	25.6		5.6	18.80						
SS715493	12/03/92	GROSS BETA	26.8		6.2	31.5		5.4	16.10						
SS715793	03/31/93	GROSS BETA	28.63		2.00981	31.95		1.98501	10.96						
SS716393	12/09/92	GROSS BETA	24.2		5.3	31.2		5.6	25.30						
SS717393	12/09/92	GROSS BETA	24.8		5.1	23.8		6.0	4.10						
SS700093	12/18/92	GROSS BETA	26.22		2.4	27.72		2.6	6.56						
SS700293	04/08/93	GROSS BETA	27.36		2.02812	29.36		2.04346	7.02						
SS700493	12/17/92	GROSS BETA	31.29		2.48	29.25		2.44	6.74						
SS701793	04/07/93	GROSS BETA	28.57		1.95142	27.18		2.12094	4.99						
SS702293	04/06/93	GROSS BETA	21.26		2.06165	24.44		1.94619	13.92						
SS702693	12/18/92	GROSS BETA	30.82		2.3	25.11		2.5	20.42						
SS703693	12/16/92	GROSS BETA	21.22		2.5	25.46		2.4	18.17						
SS703793	04/07/93	GROSS BETA	22.19		1.94619	22.74		2.00791	2.45						
SS704693	12/15/92	GROSS BETA	21.92		2.5	22.18		2.2	1.18						
SS705893	12/15/92	GROSS BETA	24.2		2.4	23.07		2.6	4.80						
SS706893	12/14/92	GROSS BETA	26.16		2.4	26.61		2.4	1.71						
SS707993	12/11/92	GROSS BETA	30.4		2.3	27.39		1.1	10.40						
SS708093	12/14/92	GROSS BETA	25.06		2.3	24.7		2.4	1.40						
SS708193	04/12/93	GROSS BETA	28.43		2.01737	27.65		2.03361	2.78						
SS708593	04/13/93	GROSS BETA	21.66		2.00601	20.68		2.08505	4.63						
SS710793	12/11/92	GROSS BETA	24.52		2.39	24.35		2.50	0.70						
SS711993	12/10/92	GROSS BETA	28.11		2.46	23.16		2.34	19.31						
SS712393	12/10/92	GROSS BETA	32.87		2.21	29.21		2.33	11.79						
SS719993	04/12/93	GROSS BETA	24.79		2.05642	22.94		2.0718	7.76						
SS717693	03/08/93	GROSS BETA	29.69		2.56	26.67	J	2.52	10.72						
SS719093	03/01/93	GROSS BETA	26.38		2.3	27.21		2.7	3.10	28	0	9.69	7.80	80.47	
SS713893	12/02/92	PLUTONIUM-239/240				.00839		.006	NC						
SS713993	03/31/93	PLUTONIUM-239/240	.03349		.014	.02595		.005	26.37						
SS715293	12/03/92	PLUTONIUM-239/240	.0275		.005	.0237		.005	14.84						
SS715493	12/03/92	PLUTONIUM-239/240	.0481		.006	.0961		.007	66.57						
SS715793	03/31/93	PLUTONIUM-239/240	.09725		.006	.04269		.0180211	77.98						
SS716393	12/09/92	PLUTONIUM-239/240	.0624		.006	.0564		.000	10.10						
SS717393	12/09/92	PLUTONIUM-239/240	.0375		.006	.0276		.000	30.41						
SS700093	12/18/92	PLUTONIUM-239/240	.01148	J	0	.01327	J	0	14.46						
SS700293	04/08/93	PLUTONIUM-239/240	.007049	J	.012968	.00335	J	.00821647	71.14						
SS700493	12/17/92	PLUTONIUM-239/240	.05373		0	.1055		0	65.03						

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS701793	04/07/93	PLUTONIUM-239/240	.02639		.00340006	.02501		.00338437	5.37					
SS701893	12/17/92	PLUTONIUM-239/240	.054		.05	.089		.05	48.95					
SS702293	04/06/93	PLUTONIUM-239/240	.002846	J	.0150466	.005091	J	.0102751	56.67					
SS702693	12/16/92	PLUTONIUM-239/240				.04247		0.000	NC					
SS703693	12/16/92	PLUTONIUM-239/240	.0252	J	0	.01784	J	0	34.20					
SS703793	04/07/93	PLUTONIUM-239/240	.00000037	J	.00956243	.00187	J	.0146747	199.92					
SS704693	12/15/92	PLUTONIUM-239/240	.001403	J	0.000	.009194	J	0.000	147.04					
SS705693	12/15/92	PLUTONIUM-239/240	.004989	J	0.000				NC					
SS706893	12/14/92	PLUTONIUM-239/240	.004656	J	0	.006346	J	0	30.72					
SS707993	12/11/92	PLUTONIUM-239/240	.02911	J	.008	.01915	J	.014	41.28					
SS708193	04/12/93	PLUTONIUM-239/240	.04254		.00797791	.03826		.00431283	10.62					
SS708593	04/13/93	PLUTONIUM-239/240	.009295	J	.0095274	.008543		.00288958	8.43					
SS710793	12/11/92	PLUTONIUM-239/240	.03163		0	.03133		0	0.95					
SS711993	12/10/92	PLUTONIUM-239/240	.2679		0	.09509		0	95.21					
SS712393	12/10/92	PLUTONIUM-239/240	.1485		.011	.1248		.016	17.34					
SS719993	04/12/93	PLUTONIUM-239/240	.03993		.0107869	.02243		.00433458	56.13					
SS717693	03/06/93	PLUTONIUM-239/240	.08799		.008	.08207		.009	6.96					
SS719093	03/01/93	PLUTONIUM-239/240	.1669		.009	.1383		.0676036	18.74	25	11	46.17	46.87	101.52
SS713693	12/02/92	RADIUM-226				.964			NC					
SS713993	03/31/93	RADIUM-226	.8486	X	0	.8531	X	0	0.53					
SS715293	12/03/92	RADIUM-226	1.07			1.04			2.84					
SS715493	12/03/92	RADIUM-226	1.12			1.41			22.92					
SS715793	03/31/93	RADIUM-226	.958	X	0	.8689	X	0	9.75					
SS716393	12/09/92	RADIUM-226	1.01			1.06			4.83					
SS717393	12/09/92	RADIUM-226	1.24			1.22			1.63					
SS700093	12/18/92	RADIUM-226	1.187		.5	.9951		.5	17.59					
SS701793	04/07/93	RADIUM-226	.7198	X	0	.7011		.235	2.63					
SS701893	12/17/92	RADIUM-226	.55			.82			39.42					
SS702293	04/06/93	RADIUM-226	.7525	X	0	.8146	X	0	7.93					
SS702693	12/16/92	RADIUM-226	.9104		.5	.8272		.5	9.58					
SS703693	12/16/92	RADIUM-226	1.475		.5	1.415		.5	4.15					
SS703793	04/07/93	RADIUM-226	.9388	X	0	.8909	X	0	5.24					
SS704693	12/15/92	RADIUM-226	.8396		.5	.7201		.5	15.32					
SS705693	12/15/92	RADIUM-226	1.299		.5	1.141		.5	12.95					
SS707993	12/11/92	RADIUM-226	.6541		.5	.944		.5	36.28					
SS708093	12/14/92	RADIUM-226	1.319		.5	1.365		.5	3.43					
SS708193	04/12/93	RADIUM-226	1.001	X	0	.9976	X	0	0.34					
SS708593	04/13/93	RADIUM-226	.7774	X	0	.8668	X	0	10.87					
SS710793	12/11/92	RADIUM-226	1.362		.5	1.264		.5	7.46					
SS717693	03/06/93	RADIUM-226	.8034	X	0	.6647	X	0	18.90					
SS719093	03/01/93	RADIUM-226	.8444	X	0	.8321	X	0	1.47	22	2	10.73	10.81	100.77
SS713693	12/02/92	RADIUM-228				1.89			NC					
SS713993	03/31/93	RADIUM-228	1.633	X	0	1.767	X	0	7.88					
SS715293	12/03/92	RADIUM-228	1.36			1.56			13.70					
SS715493	12/03/92	RADIUM-228	1.62			2.41			39.21					
SS715793	03/31/93	RADIUM-228	1.588	X	0	1.473	X	0	7.51					
SS716393	12/09/92	RADIUM-228	1.46			1.45			0.69					
SS717393	12/09/92	RADIUM-228	1.82			2.09			13.81					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV		
SS700093	12/18/92	RADIUM-228	2.179	.	.5	2.246	.	.5	2.98							
SS700293	04/08/93	RADIUM-228	1.435	X	0.15	1.504	X	0.66	4.70							
SS701793	04/07/93	RADIUM-228	1.634	X	0	1.124	X	0	36.98							
SS702293	04/06/93	RADIUM-228	1.268	X	0	1.309	X	0	3.18							
SS702893	12/16/92	RADIUM-228	1.59	.	.5	1.518	.	.5	4.63							
SS703693	12/16/92	RADIUM-228	1.821	.	.5	1.753	.	.5	3.81							
SS703793	04/07/93	RADIUM-228	1.695	X	0	1.649	X	0	2.76							
SS704693	12/15/92	RADIUM-228	2.024	.	.5	1.609	.	.5	22.85							
SS705893	12/15/92	RADIUM-228	1.767	.	.5	1.707	.	.5	3.45							
SS707993	12/11/92	RADIUM-228	1.546	.	.5	1.567	.	.5	1.36							
SS708093	12/14/92	RADIUM-228	2.052	.	.5	2.123	.	.5	3.40							
SS708193	04/12/93	RADIUM-228	1.838	X	0	1.778	X	0	3.32							
SS708593	04/13/93	RADIUM-228	1.663	.	.4357	1.33	X	0	22.26							
SS710793	12/11/92	RADIUM-228	2.041	.	.5	1.9	.	.5	7.20							
SS719993	04/12/93	RADIUM-228	1.577	X	0.18	1.925	X	0.17	19.87							
SS717693	03/06/93	RADIUM-228	1.957	X	0	1.638	X	0	17.76							
SS719093	03/01/93	RADIUM-228	1.785	X	0	1.412	X	0	23.33	23	2	11.59	11.19	96.56		
SS713693	12/02/92	STRONTIUM-89,90			.	.257	.	.4	NC							
SS713993	03/31/93	STRONTIUM-89,90	.06925		.	.0458288	.	.07504	.	.0411938	8.03					
SS715293	12/03/92	STRONTIUM-89,90	.659	.	.4						NC					
SS715493	12/03/92	STRONTIUM-89,90	.124	.	.4						NC					
SS715793	03/31/93	STRONTIUM-89,90	.0624		.	.0490173	.	.1324	.	.0394162	71.87					
SS700093	12/18/92	STRONTIUM-89,90	.4445	J	.04	.1055	J	.05	123.27							
SS700293	04/08/93	STRONTIUM-89,90	.08043		.	.0517793	.	.1306	.	.0653089	47.55					
SS700493	12/17/92	STRONTIUM-89,90	.1506	J	.04	.6102	J	.04	120.82							
SS701793	04/07/93	STRONTIUM-89,90	.2536		.	.0555357	.	.2039	.	.0475996	21.73					
SS701893	12/17/92	STRONTIUM-89,90	.021	U	.3	.51	J	.4	51.90							
SS702293	04/06/93	STRONTIUM-89,90	.09018		.	.0510929	.	.1692	.	.0454687	60.93					
SS702693	12/16/92	STRONTIUM-89,90	.6615	J	.04	.2758	J	.04	82.30							
SS703693	12/16/92	STRONTIUM-89,90	.08978	J	.03	.1632	J	.03	52.20							
SS703793	04/07/93	STRONTIUM-89,90	.08284		.	.0406947	.	.1796	.	.0401374	73.74					
SS704693	12/15/92	STRONTIUM-89,90	.1923	J	.03	1.116	.	.	.04	141.21						
SS705893	12/15/92	STRONTIUM-89,90	.05817	J	.04	.04936	J	.	.04	16.39						
SS706893	12/14/92	STRONTIUM-89,90	.1116	J	.04	.08862	J	.03	22.95							
SS707993	12/11/92	STRONTIUM-89,90	.1276	J	.05	.3045	J	.04	81.88							
SS708093	12/14/92	STRONTIUM-89,90	.1985	J	.04	.1997	J	.04	0.80							
SS708193	04/12/93	STRONTIUM-89,90	.1616		.	.0551362	.	.245	.	.0560537	41.02					
SS708593	04/13/93	STRONTIUM-89,90	.2849		.	.0400824	.	.2435	.	.0372479	15.67					
SS710793	12/11/92	STRONTIUM-89,90	.1506	J	.04	.1456	J	.05	3.38							
SS711993	12/10/92	STRONTIUM-89,90	.2971	J	.03	.3287	J	.03	10.10							
SS712393	12/10/92	STRONTIUM-89,90	.3526	J	.07	.3488	J	.04	1.08							
SS719993	04/12/93	STRONTIUM-89,90	.1579		.	.0623209	.	.1379	.	.0617518	13.62					
SS717693	03/06/93	STRONTIUM-89,90	.06182		.	.0409872	.	.06863	.	.0454947	10.44					
SS719093	03/01/93	STRONTIUM-89,90	.1224		.	.0355679	.	.09903	.	.0432299	21.11	24	12	45.57	41.43	90.91
SS713693	12/02/92	TRITIUM	229.9	J	540	.043	.	.			NC					
SS715293	12/03/92	TRITIUM	7.05	.	.	.002	.	.			199.89					
SS715493	12/03/92	TRITIUM	.628	.	.	.038	.	.			177.18					
SS716393	12/09/92	TRITIUM	.022	.	.	.152	.	.			149.43					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS717393	12/09/92	TRITIUM	.036			-.003			237.50					
SS700093	12/18/92	TRITIUM	162.5	J	400	72.83	J	400	76.20					
SS700293	04/08/93	TRITIUM	109.5	J	237.6	75.79	J	237.6	36.40					
SS700493	12/17/92	TRITIUM	146.6	J	460	11.64	J	470	170.40					
SS701793	04/07/93	TRITIUM	38.76	J	256.1	5.814	J	256.1	147.83					
SS701893	12/17/92	TRITIUM	35	U	300	.66	U	300	0.00					
SS702293	04/06/93	TRITIUM	147.1	J	242.6	55.86	J	242.6	89.90					
SS702693	12/16/92	TRITIUM	140.7	J	450	12.62	J	450	167.10					
SS703693	12/16/92	TRITIUM	-.58	J	480	143.1	J	480	473.00					
SS703793	04/07/93	TRITIUM	135.9	J	242.6	42.82	J	242.6	104.20					
SS704693	12/15/92	TRITIUM	0	J	450	.82.5	J	450	200.00					
SS705693	12/15/92	TRITIUM	.9665	J	490	-.49.3	J	490	208.00					
SS706893	12/14/92	TRITIUM	137.5	J	400	-18.6	J	400	262.60					
SS707993	12/11/92	TRITIUM	143.8	J	450	.277	J	450	63.00					
SS708093	12/14/92	TRITIUM	214.5	J	480	297.7	J	480	32.50					
SS708193	04/12/93	TRITIUM	-.59.8	J	234.9	26.17	J	234.9	511.30					
SS708593	04/13/93	TRITIUM	-.60.3	J	257.98	-.114	J	257.98	78.00					
SS710793	12/11/92	TRITIUM	-.13.9	J	400	35.32	J	400	459.60					
SS711993	12/10/92	TRITIUM	157.6	J	470	99.21	J	470	45.50					
SS712393	12/10/92	TRITIUM	157.1	J	410	44.63	J	410	111.50					
SS719993	04/12/93	TRITIUM	52.1	J	252.5	87.46	J	252.5	50.70	24	22	168.82	139.52	82.65
SS713693	12/02/92	URANIUM-233,-234	.7396		.045	.498			.028					
SS713993	03/31/93	URANIUM-233,-234	1.041		.044	.8911			.043					
SS715293	12/03/92	URANIUM-233,-234	.515		.027	.703			.021					
SS715493	12/03/92	URANIUM-233,-234	.921		.031	.865			.024					
SS715793	03/31/93	URANIUM-233,-234	1.116		.059	1.186			.030418					
SS716393	12/09/92	URANIUM-233,-234	.834		.218	1.28			.041					
SS717393	12/09/92	URANIUM-233,-234	.874		.030	1.19			.038					
SS700093	12/18/92	URANIUM-233,-234	.7291		.026	.9062			0					
SS700293	04/08/93	URANIUM-233,-234	1.327		.162758	.8118			.115888					
SS700493	12/17/92	URANIUM-233,-234	.793		0	.8175			.022					
SS701793	04/07/93	URANIUM-233,-234	.8381		.0649178	.8434			.0735951					
SS701893	12/17/92	URANIUM-233,-234	.95		.2	.86			.1					
SS702293	04/06/93	URANIUM-233,-234	.6988		.0669007	.7697			.10134					
SS702693	12/16/92	URANIUM-233,-234	.9329		.033	.852			.022					
SS703693	12/16/92	URANIUM-233,-234	.7063		.043	.7782			.036					
SS703793	04/07/93	URANIUM-233,-234	.869		.0450047	1.181			.0707587					
SS704693	12/15/92	URANIUM-233,-234				1.043			0.000			NC		
SS705693	12/15/92	URANIUM-233,-234	.7152		.021	.6926			.046			3.21		
SS706893	12/14/92	URANIUM-233,-234	.7909		.035	1.043			.03			27.49		
SS707993	12/11/92	URANIUM-233,-234	1.022		.054	.7782			.044			27.09		
SS708093	12/14/92	URANIUM-233,-234	.8621		.039	.8592			.045			0.34		
SS708193	04/12/93	URANIUM-233,-234	1.063		.0904927	.8963			.184234			17.02		
SS708593	04/13/93	URANIUM-233,-234	.7881		.0775156	.6975			.0895846			12.20		
SS710793	12/11/92	URANIUM-233,-234	.8606		.038	.8646			.063			1.63		
SS711993	12/10/92	URANIUM-233,-234	.8319		.037	.7306			.031			12.97		
SS712393	12/10/92	URANIUM-233,-234	.6282		.032	1.155			.035			59.09		
SS719993	04/12/93	URANIUM-233,-234	.7744		.0745067	.864			.0821622			10.94		

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS717693	03/06/93	URANIUM-233,-234	.8417	.059	.8038		.083	.461						
SS719093	03/01/93	URANIUM-233,-234	1.107	.077	.9112		.0620314	19.40	28	4	18.17	15.49	85.22	
SS713693	12/02/92	URANIUM-235	.08312	J	.037	.0269		.028	102.20					
SS713993	03/31/93	URANIUM-235	.07866		.041	.08028		.048	2.04					
SS715293	12/03/92	URANIUM-235	0		.027	.0198		.021	200.00					
SS715493	12/03/92	URANIUM-235	.0453		.031	.0351		.000	26.37					
SS716793	03/31/93	URANIUM-235	.09062		.047	.05361		.0261807	51.32					
SS716393	12/09/92	URANIUM-235	.0146		.000	.1		.041	149.00					
SS717393	12/09/92	URANIUM-235	.0143		.030	.128		.038	159.80					
SS700093	12/18/92	URANIUM-235	.07335	J	0	-.00697	J	.051	242.00					
SS700293	04/08/93	URANIUM-235	.08266	J	.131044	.03472	J	.0959015	81.58					
SS700493	12/17/92	URANIUM-235	0	J	0	.04065	J	0	200.00					
SS701793	04/07/93	URANIUM-235	.08647		.0560425	.0633		.0827595	30.94					
SS701893	12/17/92	URANIUM-235	.068	U	.2	.089	U	.1	0.00					
SS702293	04/06/93	URANIUM-235	.01283	J	.062207	.02767	J	.0529425	73.28					
SS702693	12/16/92	URANIUM-235	.03211	J	.024	.04036	J	0.000	22.77					
SS703693	12/16/92	URANIUM-235	.02474	J	.025	.07048	J	.028	98.07					
SS703793	04/07/93	URANIUM-235	.07254		.0450047	.06263	J	.0635761	14.66					
SS704693	12/15/92	URANIUM-235				-.00564	J	.042	NC					
SS706893	12/15/92	URANIUM-235	.03907	J	0.000	.04418	J	.032	12.28					
SS706893	12/14/92	URANIUM-235	.04465	J	.025	.0569	J	0	24.13					
SS707993	12/11/92	URANIUM-235	.06031	J	0	.03514	J	0	52.74					
SS708093	12/14/92	URANIUM-235	.04917	J	.039	-.00364	J	.032	231.98					
SS708193	04/12/93	URANIUM-235	.04087	J	.0904927	-.00526	J	.133847	259.08					
SS708693	04/13/93	URANIUM-235	.04824	J	.0608252	.01341	J	.0773197	112.99					
SS710793	12/11/92	URANIUM-235	.03493	J	0	.0111	J	.063	103.64					
SS711993	12/10/92	URANIUM-235	.02298	J	.026	.0516	J	.022	78.75					
SS712393	12/10/92	URANIUM-235	.008266	J	.032	.04592	J	.022	138.98					
SS719993	04/12/93	URANIUM-235	.03734	J	.0805699	.1178		.0821622	103.73					
SS717693	03/06/93	URANIUM-235	.02561	J	.064	.06693	J	.075	89.30					
SS719093	03/01/93	URANIUM-235	-.00141	J	.065	.05969		.0559318	209.68	28	20	102.37	78.27	76.46
SS713693	12/02/92	URANIUM-238	.7779		.037	.606		.028	24.84					
SS713993	03/31/93	URANIUM-238	.8621		.037	1.206		.051	33.26					
SS715293	12/03/92	URANIUM-238	.799		.027	.604		.021	27.80					
SS715493	12/03/92	URANIUM-238	1.15		.031	1.02		.000	11.98					
SS716793	03/31/93	URANIUM-238	1.351		.042	1.302		.0073266	3.69					
SS716393	12/09/92	URANIUM-238	.761		.030	1		.041	27.00					
SS717393	12/09/92	URANIUM-238	.817		.030	1.01		.038	21.13					
SS700093	12/18/92	URANIUM-238	.8396		.026	1.161		.051	32.13					
SS700293	04/08/93	URANIUM-238	1.132		.12185	.8647		.159783	26.77					
SS700493	12/17/92	URANIUM-238	.8362		.024	.7147		0	15.67					
SS701793	04/07/93	URANIUM-238	.9456		.0469865	1.126		.0979495	17.42					
SS701893	12/17/92	URANIUM-238	.74		.2	.93		.1	22.75					
SS702293	04/06/93	URANIUM-238	.7635		.0413225	.9023		.0701719	16.66					
SS702693	12/16/92	URANIUM-238	1.027		.024	.9764		0.022	5.05					
SS703693	12/16/92	URANIUM-238	.7924		.018	1.148		.023	36.65					
SS703793	04/07/93	URANIUM-238	.9405		.0536787	1.309		.0316173	32.76					
SS704693	12/15/92	URANIUM-238				.798		0.042	NC					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS705893	12/16/92	URANIUM-238	1.005	0.021	1.022		0.046		1.68					
SS706893	12/14/92	URANIUM-238	.8394	.035	.9726		0		14.70					
SS707993	12/11/92	URANIUM-238	1.026	.044	.8757		.028		15.81					
SS708093	12/14/92	URANIUM-238	.792	.056	.8768		.032		10.16					
SS708193	04/12/93	URANIUM-238	1.481	.103077	1.079		.133847		31.41					
SS708593	04/13/93	URANIUM-238	1.009	.0988552	1.181		.0648256		15.71					
SS710793	12/11/92	URANIUM-238	.9697	.038	.9858		.089		2.68					
SS711993	12/10/92	URANIUM-238	.6985	0	.8201		0		16.01					
SS712393	12/10/92	URANIUM-238	.6496	.042	1.003		.018		42.77					
SS719993	04/12/93	URANIUM-238	1.177	.056213	.8374		.102355		33.72					
SS717693	03/06/93	URANIUM-238	1.059	.064	1.087		.078		2.61					
SS719093	03/01/93	URANIUM-238	1.038	.072	1.017		.0667119		2.04	28	2	19.46	11.87	61.02
SS717693	03/06/93	1,2,4-TRICHLOROBENZENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	1,2,4-TRICHLOROBENZENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	1,2-DICHLOROBENZENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	1,2-DICHLOROBENZENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	1,3-DICHLOROBENZENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	1,3-DICHLOROBENZENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	1,4-DICHLOROBENZENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	1,4-DICHLOROBENZENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2,4,4-TRICHLOROPHENOL	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	2,4,4-TRICHLOROPHENOL	1900	U	1900	1900	U	1900	0.00	2	0			
SS717693	03/06/93	2,4,6-TRICHLOROPHENOL	350	U	360	370	U	370	0.00					
SS719093	03/01/93	2,4,6-TRICHLOROPHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2,4-DICHLOROPHENOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2,4-DICHLOROPHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2,4-DIMETHYLPHENOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2,4-DIMETHYLPHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2,4-DINITROPHENOL	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	2,4-DINITROPHENOL	1900	U	1900	1900	U	1900	0.00	2	0			
SS717693	03/06/93	2,4-DINITROTOLUENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2,4-DINITROTOLUENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2,6-DINITROTOLUENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2,6-DINITROTOLUENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2-CHLORONAPHTHALENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2-CHLORONAPHTHALENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2-CHLOROPHENOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2-CHLOROPHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2-METHYLNAPHTHALENE	200	J	350	370	U	370	60.00					
SS719093	03/01/93	2-METHYLNAPHTHALENE	390	U	390	380	U	380	0.00	2	1	30.00	42.43	141.42
SS717693	03/06/93	2-METHYLPHENOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2-METHYLPHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	2-NITROANILINE	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	2-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
SS717693	03/06/93	2-NITROPHENOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	2-NITROPHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	3,3'-DICHLOROBENZIDINE	700	U	700	730	U	730	0.00					
SS719093	03/01/93	3,3'-DICHLOROBENZIDINE	770	U	770	760	U	760	0.00	2	0			

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS717693	03/06/93	3-NITROANILINE	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	3-NITROANILINE	1900	U	1900	1900	U	1900	0.00	2	0			
SS717893	03/06/93	4,6-DINITRO-2-METHYLPHENOL	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	4,6-DINITRO-2-METHYLPHENOL	1900	U	1900	1900	U	1900	0.00	2	0			
SS717893	03/06/93	4-BROMOPHENYL PHENYL ETHER	350	U	350	370	U	370	0.00					
SS719093	03/01/93	4-BROMOPHENYL PHENYL ETHER	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	4-CHLOROPHENYL PHENYL ETHER	350	U	350	370	U	370	0.00					
SS719093	03/01/93	4-CHLOROPHENYL PHENYL ETHER	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	4-CHLOROPHENYL PHENYL ETHER	350	U	350	370	U	370	0.00					
SS719093	03/01/93	4-CHLOROPHENYL PHENYL ETHER	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	4-METHYLPHENOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	4-METHYLPHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	4-NITROANILINE	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	4-NITROANILINE	1900	U	1900	1900	U	1900	0.00	2	0			
SS717693	03/06/93	4-NITROPHENOL	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	4-NITROPHENOL	1900	U	1900	1900	U	1900	0.00	2	0			
SS717693	03/06/93	ACENAPHTHENE	800	U	350	370	U	370	74.00					
SS719093	03/01/93	ACENAPHTHENE	390	U	390	380	U	380	0.00	2	1	37.00	52.33	141.42
SS717693	03/06/93	ACENAPHTHYLENE	38	J	350	370	U	370	163.00					
SS719093	03/01/93	ACENAPHTHYLENE	390	U	390	380	U	380	0.00	2	1	81.50	115.26	141.42
SS717693	03/06/93	ANTHRACENE	650	U	350	370	U	370	55.00					
SS719093	03/01/93	ANTHRACENE	390	U	390	380	U	380	0.00	2	1	27.50	38.89	141.42
SS717693	03/06/93	BENZO(a)ANTHRACENE	990	U	350	77	J	370	171.00					
SS719093	03/01/93	BENZO(a)ANTHRACENE	390	U	390	380	U	380	0.00	2	1	85.50	120.92	141.42
SS717693	03/06/93	BENZO(a)PYRENE	920	U	350	370	U	370	85.00					
SS719093	03/01/93	BENZO(a)PYRENE	390	U	390	380	U	380	0.00	2	1	42.50	60.10	141.42
SS717693	03/06/93	BENZO(b)FLUORANTHENE	1400	U	350	370	U	370	116.00					
SS719093	03/01/93	BENZO(b)FLUORANTHENE	64	J	390	380	U	380	142.00	2	2	129.00	18.38	14.25
SS717693	03/06/93	BENZO(ghi)PERYLENE	320	J	350	370	U	370	14.00					
SS719093	03/01/93	BENZO(ghi)PERYLENE	390	U	390	380	U	380	0.00	2	0	7.00	9.90	141.42
SS717693	03/06/93	BENZO(k)FLUORANTHENE	590	U	350	370	U	370	46.00					
SS719093	03/01/93	BENZO(k)FLUORANTHENE	390	U	390	380	U	380	0.00	2	1	23.00	32.53	141.42
SS719093	03/01/93	BENZOIC ACID	1900	U	1900	1900	U	1900	0.00	1	0			
SS717693	03/06/93	BENZYL ALCOHOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	BENZYL ALCOHOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	BIS(2-CHLOROETHOXY)METHANE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	BIS(2-CHLOROETHOXY)METHANE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	BIS(2-CHLOROETHYL)ETHER	350	U	350	370	U	370	0.00					
SS719093	03/01/93	BIS(2-CHLOROETHYL)ETHER	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	BIS(2-CHLOROISOPROPYL)ETHER	350	U	350	370	U	370	0.00					
SS719093	03/01/93	BIS(2-CHLOROISOPROPYL)ETHER	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	BIS(2-ETHYLHEXYL)PHTHALATE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	BIS(2-ETHYLHEXYL)PHTHALATE	390	U	390	170	J	380	79.00	2	1	39.50	55.86	141.42
SS717693	03/06/93	BUTYL BENZYL PHTHALATE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	BUTYL BENZYL PHTHALATE	390	U	390	150	J	380	89.00	2	1	44.50	62.93	141.42
SS717693	03/06/93	CHRYSENE	950	U	350	79	J	370	169.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS719093	03/01/93	CHRYSENE	47	J	390	43	J	380	9.00	2	1	89.00	113.14	127.12
SS717693	03/06/93	DI-n-BUTYL PHthalATE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	DI-n-BUTYL PHthalATE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	DI-n-OCTYL PHthalATE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	DI-n-OCTYL PHthalATE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	DIBENZO(a,h)ANTHRAcENE	110	J	350	370	U	370	108.00					
SS719093	03/01/93	DIBENZO(a,h)ANTHRAcENE	390	U	390	380	U	380	0.00	2	1	54.00	76.37	141.42
SS717693	03/06/93	DIBENZOFURAN	360		350	370	U	370	6.00					
SS719093	03/01/93	DIBENZOFURAN	390	U	390	380	U	380	0.00	2	0	3.00	4.24	141.42
SS717693	03/06/93	DIETHYL PHthalATE	360	U	350	370	U	370	0.00					
SS719093	03/01/93	DIETHYL PHthalATE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	DIMETHYL PHthalATE	350	U	360	370	U	370	0.00					
SS719093	03/01/93	DIMETHYL PHthalATE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	FLUORANTHENE	2800		350	150	J	370	180.00					
SS719093	03/01/93	FLUORANTHENE	97	J	390	92	J	380	5.00	2	1	92.50	123.74	133.78
SS717693	03/06/93	FLUORENE	680		350	370	U	370	69.00					
SS719093	03/01/93	FLUORENE	390	U	390	380	U	380	0.00	2	1	29.50	41.72	141.42
SS717693	03/06/93	HEXAChLOROBENZENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	HEXAChLOROBENZENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	HEXAChLOROBUTADIENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	HEXAChLOROBUTADIENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	HEXAChLOROCYCLOPENTADIENE	350	U	360	370	U	370	0.00	1	0			
SS717693	03/06/93	HEXAChLOROETHANE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	HEXAChLOROETHANE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	INDENO(1,2,3-cd)PYRENE	400		350	370	U	370	8.00					
SS719093	03/01/93	INDENO(1,2,3-cd)PYRENE	390	U	390	380	U	380	0.00	2	0	4.00	5.66	141.42
SS717693	03/06/93	ISOPHORONE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	ISOPHORONE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	N-NITROSO-DI-n-PROPYLAMINE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	N-NITROSO-DI-n-PROPYLAMINE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	N-NITROSODIPHENYLAMINE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	N-NITROSODIPHENYLAMINE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	NAPHTHALENE	690		350	370	U	370	60.00					
SS719093	03/01/93	NAPHTHALENE	390	U	390	380	U	380	0.00	2	1	30.00	42.43	141.42
SS717693	03/06/93	NITROBENZENE	350	U	350	370	U	370	0.00					
SS719093	03/01/93	NITROBENZENE	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	PENTACHLOROPHENOL	1800	U	1800	1800	U	1800	0.00					
SS719093	03/01/93	PENTACHLOROPHENOL	1900	U	1900	1900	U	1900	0.00	2	0			
SS717693	03/06/93	PHENANTHRENE	3500		350	99	J	370	189.00					
SS719093	03/01/93	PHENANTHRENE	64	J	390	66	J	380	3.00	2	1	96.00	131.52	137.00
SS717693	03/06/93	PHENOL	350	U	350	370	U	370	0.00					
SS719093	03/01/93	PHENOL	390	U	390	380	U	380	0.00	2	0			
SS717693	03/06/93	PYRENE	2600		350	160	J	370	177.00					
SS719093	03/01/93	PYRENE	96	J	390	86	J	380	11.00	2	1	94.00	117.38	124.87
SS713693	12/02/92	AROCLOR-1016	48	U	48	45	U	45	0.00					
SS713993	03/31/93	AROCLOR-1016	46	U	46	46	U	46	0.00					
SS715293	12/03/92	AROCLOR-1016	43	U	43	45	U	45	0.00					
SS715493	12/03/92	AROCLOR-1016	48	U	48	47	U	47	0.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS715793	03/31/93	AROCLOR-1016	46	U	46	44	U	44	0.00					
SS716393	12/09/92	AROCLOR-1016	51	U	51	55	U	55	0.00					
SS717393	12/09/92	AROCLOR-1016	46	U	46	45	U	45	0.00	7	0			
SS713693	12/02/92	AROCLOR-1221	48	U	48	45	U	45	0.00					
SS713993	03/31/93	AROCLOR-1221	46	U	46	46	U	46	0.00					
SS715293	12/03/92	AROCLOR-1221	43	U	43	45	U	45	0.00					
SS715493	12/03/92	AROCLOR-1221	48	U	48	47	U	47	0.00					
SS715793	03/31/93	AROCLOR-1221	46	U	46	44	U	44	0.00					
SS716393	12/09/92	AROCLOR-1221	51	U	51	55	U	55	0.00					
SS717393	12/09/92	AROCLOR-1221	46	U	46	45	U	45	0.00	7	0			
SS713693	12/02/92	AROCLOR-1232	48	U	48	45	U	45	0.00					
SS713993	03/31/93	AROCLOR-1232	46	U	46	46	U	46	0.00					
SS715293	12/03/92	AROCLOR-1232	43	U	43	45	U	45	0.00					
SS715493	12/03/92	AROCLOR-1232	48	U	48	47	U	47	0.00					
SS715793	03/31/93	AROCLOR-1232	46	U	46	44	U	44	0.00					
SS716393	12/09/92	AROCLOR-1232	51	U	51	55	U	55	0.00					
SS717393	12/09/92	AROCLOR-1232	46	U	46	45	U	45	0.00	7	0			
SS713693	12/02/92	AROCLOR-1242	48	U	48	45	U	45	0.00					
SS713993	03/31/93	AROCLOR-1242	46	U	46	46	U	46	0.00					
SS715293	12/03/92	AROCLOR-1242	43	U	43	45	U	45	0.00					
SS715493	12/03/92	AROCLOR-1242	48	U	48	47	U	47	0.00					
SS715793	03/31/93	AROCLOR-1242	46	U	46	44	U	44	0.00					
SS716393	12/09/92	AROCLOR-1242	51	U	51	55	U	55	0.00					
SS717393	12/09/92	AROCLOR-1242	46	U	46	45	U	45	0.00	7	0			
SS713693	12/02/92	AROCLOR-1248	48	U	48	45	U	45	0.00					
SS713993	03/31/93	AROCLOR-1248	46	U	46	46	U	46	0.00					
SS715293	12/03/92	AROCLOR-1248	43	U	43	45	U	45	0.00					
SS715493	12/03/92	AROCLOR-1248	48	U	48	47	U	47	0.00					
SS715793	03/31/93	AROCLOR-1248	46	U	46	44	U	44	0.00					
SS716393	12/09/92	AROCLOR-1248	51	U	51	55	U	55	0.00					
SS717393	12/09/92	AROCLOR-1248	46	U	46	45	U	45	0.00	7	0			
SS713693	12/02/92	AROCLOR-1254	14	J	97	14	J	91	0.00					
SS713993	03/31/93	AROCLOR-1254	92	U	92	92	U	92	0.00					
SS715293	12/03/92	AROCLOR-1254	86	U	86	91	U	91	0.00					
SS715493	12/03/92	AROCLOR-1254	97	U	97	95	U	95	0.00					
SS715793	03/31/93	AROCLOR-1254	91	U	91	88	U	88	0.00					
SS716393	12/09/92	AROCLOR-1254	100	U	100	110	U	110	0.00					
SS717393	12/09/92	AROCLOR-1254	93	U	93	9.7	J	90	162.00	7	1	23.14	61.23	264.58
SS713693	12/02/92	AROCLOR-1260	97	U	97	91	U	91	0.00					
SS713993	03/31/93	AROCLOR-1260	92	U	92	92	U	92	0.00					
SS715293	12/03/92	AROCLOR-1260	11	J	86	12	J	91	9.00					
SS715493	12/03/92	AROCLOR-1260	97	U	97	12	J	95	156.00					
SS715793	03/31/93	AROCLOR-1260	91	U	91	88	U	88	0.00					
SS716393	12/09/92	AROCLOR-1260	18	J	100	16	J	110	12.00					
SS717393	12/09/92	AROCLOR-1260	93	U	93	90	U	90	0.00	7	1	25.29	57.86	228.82
SS713693	12/02/92	% SOLIDS	80.4	.1		86.1	.1		6.80					
SS713993	03/31/93	% SOLIDS	86.1	.1		85.8	.1		0.30					
SS715293	12/03/92	% SOLIDS	89.8	.1		86.6	.1		3.60					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70493	01/29/93	ALUMINUM	11700	5.7	9270	5.2	23.00							
70493	01/30/93	ALUMINUM	8400	6.8	7860	6.4	7.00							
70593	01/19/93	ALUMINUM	5410	5.2	4580	6.1	17.00							
70593	01/22/93	ALUMINUM	5390	5.5	9370	7	54.00							
70593	01/22/93	ALUMINUM	9320	7.6	12200	6.2	27.00							
70993	02/03/93	ALUMINUM	7870	7	9030	6.3	14.00							
71093	02/04/93	ALUMINUM	5870	5.9	13300	6.9	78.00							
71193	02/11/93	ALUMINUM	6570	7	8080	6.8	21.00							
71193	02/11/93	ALUMINUM	5580	7.2	7050	7.2	23.00							
71393	02/23/93	ALUMINUM	6030	5.9	5990	6	1.00							
71393	02/23/93	ALUMINUM	7940	5.7	5500	5.2	38.00							
71593	03/03/93	ALUMINUM	7000	6.8	6340	6.9	10.00							
71793	03/02/93	ALUMINUM	7940	7.1	7980	7	1.00							
71993	02/20/93	ALUMINUM	10800	7.7	13300	7.2	21.00							
72193	02/26/93	ALUMINUM	15600	7	15600	6.6	0.00							
72193	02/26/93	ALUMINUM	8400	7.3	9770	6.8	15.00	16	3	21.75	20.42	93.90		
70493	01/29/93	ANTIMONY	3.5	U	3.5	3.2	U	3.2	0.00					
70493	01/30/93	ANTIMONY	4.2	U	4.2	4	U	4	0.00					
70993	02/03/93	ANTIMONY	4.4	U	4.4	3.9	U	3.9	0.00					
71093	02/04/93	ANTIMONY	3.7	U	3.7	4.3	U	4.3	0.00					
71193	02/11/93	ANTIMONY	4.4	U	4.4	4.2	U	4.2	0.00					
71193	02/11/93	ANTIMONY	4.5	U	4.5	4.5	U	4.5	0.00					
71393	02/23/93	ANTIMONY	3.7	U	3.7	3.8		3.7	2.70					
71393	02/23/93	ANTIMONY	3.5	U	3.5	3.8		3.2	8.20					
71593	03/03/93	ANTIMONY	6.1		4.2	11		4.3	57.00					
71793	03/02/93	ANTIMONY	4.4	U	4.4	4.4		4.4	0.00					
71993	02/20/93	ANTIMONY	4.8	U	4.8	4.5	U	4.5	0.00					
72193	02/26/93	ANTIMONY	4.5		4.3	4.1	U	4.1	9.30					
72193	02/26/93	ANTIMONY	4.8		4.5	5.3		4.2	9.90	13	1	6.70	15.61	233.00
70493	01/29/93	ARSENIC	1		.3	.94		.29	6.00					
70493	01/30/93	ARSENIC	1.6		.28	1.9		.28	17.10					
70593	01/19/93	ARSENIC	1.3		.39				NC					
70593	01/22/93	ARSENIC	3.6		.38	3.4		.37	5.70					
70593	01/22/93	ARSENIC	1.7		.36	.86		.38	65.60					
70993	02/03/93	ARSENIC	3.2		.31	3.4		.3	6.10					
71093	02/04/93	ARSENIC	1.3		.24	2.6		.22	66.70					
71193	02/11/93	ARSENIC	8.5		.24	8.6		.25	1.20					
71193	02/11/93	ARSENIC	4.7		.25	5.8		.25	21.00					
71393	02/23/93	ARSENIC	1.8		.33	3.3		.33	58.80					
71393	02/23/93	ARSENIC	3.1		.33	3.3		.31	6.30					
71593	03/03/93	ARSENIC	2.8		.32	4.4		.31	44.40					
71793	03/02/93	ARSENIC	5		.29	2		.31	86.00					
71993	02/20/93	ARSENIC	3.2		.27	4.1		.25	24.70					
72193	02/26/93	ARSENIC	1.4		.34	1.5		.34	6.90					
72193	02/26/93	ARSENIC	1.3		.33	1.1		.32	16.70	15	5	28.88	27.88	96.54

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70493	01/29/93	BARIUM	65.2		1.2	47.3		1.1	31.80					
70493	01/30/93	BARIUM	58.5		1.4	47.9		1.3	19.90					
70593	01/19/93	BARIUM	49.3		1.1	56.4		1.2	13.40					
70593	01/22/93	BARIUM	75.4		1.1	130		1.4	53.00					
70593	01/22/93	BARIUM	103		1.6	105		1.3	2.00					
70993	02/03/93	BARIUM	76.9		1.4	71.9		1.3	6.70					
71093	02/04/93	BARIUM	254		1.2	287		1.4	12.00					
71193	02/11/93	BARIUM	95.7		1.4	90.6		1.4	5.50					
71193	02/11/93	BARIUM	82.2		1.5	88.5		1.5	7.40					
71393	02/23/93	BARIUM	171		1.2	113		1.2	41.00					
71393	02/23/93	BARIUM	145		1.2	167		1.1	14.00					
71593	03/03/93	BARIUM	92.2		1.4	69.4		1.4	28.20					
71793	03/02/93	BARIUM	150		1.4	175		1.4	15.00					
71993	02/20/93	BARIUM	57.3		1.6	62		1.5	8.00					
72193	02/26/93	BARIUM	96.4		1.4	81.9		1.4	16.30					
72193	02/26/93	BARIUM	135		1.5	156		1.4	14.00	16	2	18.01	13.92	77.27
70493	01/29/93	BERYLLIUM	.95		.16	.83		.15	13.48					
70493	01/30/93	BERYLLIUM	.56		.19	.6		.18	6.90					
70593	01/19/93	BERYLLIUM	.63		.15	.75		.17	17.39					
70593	01/22/93	BERYLLIUM	.68		.16	1.3		.2	62.60					
70593	01/22/93	BERYLLIUM	1.3		.22	2.1		.18	47.10					
70993	02/03/93	BERYLLIUM	1		.2	1.1		.18	10.00					
71093	02/04/93	BERYLLIUM	.9		.17	1.1		.2	20.00					
71193	02/11/93	BERYLLIUM	.73		.2	.62		.19	16.30					
71193	02/11/93	BERYLLIUM	.5		.2	.63		.2	23.00					
71393	02/23/93	BERYLLIUM	.76		.17	.53		.17	35.66					
71393	02/23/93	BERYLLIUM	.89		.16	.75		.15	17.07					
71593	03/03/93	BERYLLIUM	.75		.19	1.6		.2	72.30					
71793	03/02/93	BERYLLIUM	.96		.2	.89		.2	7.57					
71993	02/20/93	BERYLLIUM	1.4		.22	1.2		.2	15.40					
72193	02/26/93	BERYLLIUM	.9		.2	.9		.19	0.00					
72193	02/26/93	BERYLLIUM	1.4		.21	1.4		.19	0.00	16	4	22.80	21.19	92.93
70493	01/29/93	CADMUM	.49	U	.49	.44	U	.44	0.00					
70493	01/30/93	CADMUM	.58	U	.58	.54	U	.54	0.00					
70593	01/19/93	CADMUM	.44	U	.44	.52	U	.52	0.00					
70593	01/22/93	CADMUM	.47	U	.47	.6	U	.6	0.00					
70593	01/22/93	CADMUM	.64	U	.65	.53	U	.53	0.00					
70993	02/03/93	CADMUM	.6	U	.6	.54	U	.54	0.00					
71093	02/04/93	CADMUM	.51	U	.51	.59	U	.59	0.00					
71193	02/11/93	CADMUM	.6	U	.6	.58	U	.58	0.00					
71193	02/11/93	CADMUM	.61	U	.61	.61	U	.61	0.00					
71393	02/23/93	CADMUM	.5	U	.5	.51	U	.51	0.00					
71393	02/23/93	CADMUM	.48	U	.48	.44	U	.44	0.00					
71593	03/03/93	CADMUM	.58	U	.58	.59	U	.59	0.00					
71793	03/02/93	CADMUM	.6	U	.6	.6	U	.6	0.00					

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
SS715493	12/03/92	% SOLIDS	81.6	.1	83.2	.1			1.90						
SS715793	03/31/93	% SOLIDS	87.2	.1	89.4	.1			2.50						
SS716393	12/09/92	% SOLIDS	77.2	.1	72.1	.1			6.80						
SS717393	12/09/92	% SOLIDS	86.3	.1	88.7	.1			2.70						
SS700093	12/18/92	% SOLIDS	72.9	.1	77.1	.1			5.60						
SS700293	04/08/93	% SOLIDS	83.7	.1	82.8	.1			1.10						
SS700493	12/17/92	% SOLIDS	64.6	.1	74.8	.1			14.60						
SS701793	04/07/93	% SOLIDS	74.7	.1	82.7	.1			10.20						
SS701893	12/17/92	% SOLIDS	72.8	.1	73	.1			0.00						
SS702293	04/06/93	% SOLIDS	79.4	.1	80.5	.1			1.40						
SS702693	12/16/92	% SOLIDS	74.8	.1	81.9	.1			9.10						
SS703693	12/16/92	% SOLIDS	73.8	.1	74.6	.1			1.10						
SS703793	04/07/93	% SOLIDS	81.6	.1	78.9	.1			3.40						
SS704693	12/15/92	% SOLIDS	75.8	.1	76.1	.1			0.40						
SS705893	12/16/92	% SOLIDS	78.7	.1	79.1	.1			0.50						
SS706893	12/14/92	% SOLIDS	78.1	.1	78.6	.1			0.60						
SS707993	12/11/92	% SOLIDS	79.5	.1	76.9	.1			3.30						
SS708093	12/14/92	% SOLIDS	70.3	.1	73.2	.1			4.00						
SS708193	04/12/93	% SOLIDS	82	.1	82.4	.1			0.00						
SS708593	04/13/93	% SOLIDS	80.5	.1	77.7	.1			3.50						
SS710793	12/11/92	% SOLIDS	77.2	.1	75.9	.1			1.70						
SS711993	12/10/92	% SOLIDS	68.9	.1	68.4	.1			0.70						
SS712393	12/10/92	% SOLIDS	78.1	.1	69.7	.1			11.40						
SS719993	04/12/93	% SOLIDS	87.3	0.10	86.9		0.10		0.50						
SS717693	03/06/93	% SOLIDS	94.1	.1	90.7	.1			3.70						
SS719093	03/01/93	% SOLIDS	86.4	.1	86.2	.1			0.20	29	0	3.50	3.79	108.05	
SS717693	03/06/93	ALKALINITY AS CACO ₃	1100	U	11	900	U	.09	0.00						
SS719093	03/01/93	ALKALINITY AS CACO ₃	1000	U	.1	1700	U	.11	200.00	2	1	100.00	141.42	141.42	
SS713693	12/02/92	NITRATE/NITRITE					U		U			NC			
SS713993	03/31/93	NITRATE/NITRITE					U		U			NC			
SS715293	12/03/92	NITRATE/NITRITE					U		U			NC			
SS715493	12/03/92	NITRATE/NITRITE					U		U			NC			
SS715793	03/31/93	NITRATE/NITRITE					U		U			NC			
SS700093	12/18/92	NITRATE/NITRITE					U		U			NC			
SS700293	04/08/93	NITRATE/NITRITE					U		U			NC			
SS700493	12/17/92	NITRATE/NITRITE					U		U			NC			
SS701793	04/07/93	NITRATE/NITRITE					U		U			NC			
SS701893	12/17/92	NITRATE/NITRITE					U		U			NC			
SS702293	04/06/93	NITRATE/NITRITE					U		U			NC			
SS702693	12/16/92	NITRATE/NITRITE					U		U			NC			
SS703693	12/16/92	NITRATE/NITRITE					U		U			NC			
SS703793	04/07/93	NITRATE/NITRITE					U		U			NC			
SS704693	12/15/92	NITRATE/NITRITE					U		U			NC			
SS705893	12/15/92	NITRATE/NITRITE					U		U			NC			
SS706893	12/14/92	NITRATE/NITRITE					U		U			NC			
SS707993	12/11/92	NITRATE/NITRITE					U		U			NC			
SS708093	12/14/92	NITRATE/NITRITE					U		U			NC			
SS708193	04/12/93	NITRATE/NITRITE					U		U			NC			
SS708593	04/13/93	NITRATE/NITRITE					U		U			NC			
SS710793	12/11/92	NITRATE/NITRITE					U		U			NC			
SS719993	04/12/93	NITRATE/NITRITE					U		U			NC			
SS716393	12/09/92	NITRATE/NITRITE (HISTORICAL CODE)					U		U			NC			

Table J-3
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Soils

LOCATION/ SAMPLE ID	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SS717393	12/09/92	NITRATE/NITRITE (HISTORICAL CODE)		U			U		NC					
SS711993	12/10/92	NITRATE/NITRITE (HISTORICAL CODE)							NC					
SS712393	12/10/92	NITRATE/NITRITE (HISTORICAL CODE)							NC	0				
SS717693	03/06/93	pH	8		.2	8.1		.2	1.00					
SS719093	03/01/93	pH	8.2		.2	8.2		.2	0.00	2	0	0.50	0.71	141.42
SS713693	12/02/92	TOTAL ORGANIC CARBON	3800		.05	4800		.05	23.00					
SS713993	03/31/93	TOTAL ORGANIC CARBON							NC					
SS715293	12/03/92	TOTAL ORGANIC CARBON	1100		.05	500	U	.05	200.00					
SS715493	12/03/92	TOTAL ORGANIC CARBON	12000		.05	8600		.05	33.00					
SS715793	03/31/93	TOTAL ORGANIC CARBON							NC					
SS716393	12/09/92	TOTAL ORGANIC CARBON	.05	U	.05	.57		.05	167.74					
SS717393	12/09/92	TOTAL ORGANIC CARBON	.12		.05	.6		.05	133.30					
SS700093	12/18/92	TOTAL ORGANIC CARBON	9500	X	.05	500	U	.05	200.00					
SS700293	04/08/93	TOTAL ORGANIC CARBON							NC					
SS700493	12/17/92	TOTAL ORGANIC CARBON	26000	X	.05	30000	X	.05	14.00					
SS701793	04/07/93	TOTAL ORGANIC CARBON							NC					
SS701893	12/17/92	TOTAL ORGANIC CARBON	27000	X	.05	32000	X	.05	17.00					
SS702293	04/06/93	TOTAL ORGANIC CARBON							NC					
SS702693	12/16/92	TOTAL ORGANIC CARBON	2.1	X	.05	2.4	X	.05	13.30					
SS703693	12/16/92	TOTAL ORGANIC CARBON	.12	X	.05	.19	X	.05	45.16					
SS703793	04/07/93	TOTAL ORGANIC CARBON							NC					
SS704693	12/15/92	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
SS705693	12/15/92	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
SS706893	12/14/92	TOTAL ORGANIC CARBON	.6	X	.05	.14	X	.05	124.30					
SS707993	12/11/92	TOTAL ORGANIC CARBON	14000		.05	15000		.05	7.00					
SS708093	12/14/92	TOTAL ORGANIC CARBON	2.8	X	.05	2	X	.05	33.00					
SS708193	04/12/93	TOTAL ORGANIC CARBON							NC					
SS708693	04/13/93	TOTAL ORGANIC CARBON							NC					
SS710793	12/11/92	TOTAL ORGANIC CARBON	2700		.05	6700		.05	85.00					
SS711993	12/10/92	TOTAL ORGANIC CARBON	3.4		.05	3.4		.05	0.00					
SS712393	12/10/92	TOTAL ORGANIC CARBON	2.3		.05	2.9		.05	23.10					
SS719993	04/12/93	TOTAL ORGANIC CARBON							NC					
SS717693	03/06/93	TOTAL ORGANIC CARBON	.24	X	.05	.67	X	.05	94.51					
SS719093	03/01/93	TOTAL ORGANIC CARBON	.54	X	.05	.79	X	.05	37.69	20	9	62.55	67.54	107.97

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71993	02/20/93	CADMUM	.66	U	.66	.61	U	.61	0.00					
72193	02/26/93	CADMUM	.59	U	.59	.57	U	.57	0.00					
72193	02/26/93	CADMUM	.62	U	.62	.58	U	.58	0.00	16	0			
70493	01/29/93	CALCIUM	3750		5.5	3910		5	4.00					
70493	01/30/93	CALCIUM	2200		6.6	1660		6.2	28.00					
70593	01/19/93	CALCIUM	5140		5	4550		5.9	12.00					
70593	01/22/93	CALCIUM	4830		5.3	7370		6.8	42.00					
70593	01/22/93	CALCIUM	6290		7.4	6900		6.1	9.00					
70993	02/03/93	CALCIUM	5670		6.8	5590		6.1	1.00					
71093	02/04/93	CALCIUM	3690		5.8	3990		6.7	8.00					
71193	02/11/93	CALCIUM	3640		6.8	3640		6.6	0.00					
71193	02/11/93	CALCIUM	3510		7	3700		7	5.00					
71393	02/23/93	CALCIUM	4080		5.7	4650		5.8	13.00					
71393	02/23/93	CALCIUM	6000		5.5	4500		5	29.00					
71593	03/03/93	CALCIUM	5740		6.6	4840		6.7	17.00					
71793	03/02/93	CALCIUM	7310		6.9	8310		6.8	13.00					
71993	02/20/93	CALCIUM	7620		7.5	9710		7	24.00					
72193	02/26/93	CALCIUM	12700		6.8	6130		6.5	70.00					
72193	02/26/93	CALCIUM	7050		7.1	7950		6.6	12.00	16	2	17.94	17.92	99.92
70493	01/29/93	CESIUM	90	U	90	81.4	U	81.4	0.00					
70493	01/30/93	CESIUM	108	U	108	100	U	100	0.00					
70593	01/19/93	CESIUM	81.3	U	81.3	95.8	U	95.8	0.00					
70593	01/22/93	CESIUM	86.8	U	86.8	110	U	110	0.00					
70593	01/22/93	CESIUM	119	U	119	98.2	U	98.2	0.00					
70993	02/03/93	CESIUM	111	U	111	99.6	U	99.6	0.00					
71093	02/04/93	CESIUM	93.6	U	93.6	109	U	109	0.00					
71193	02/11/93	CESIUM	111	U	111	107	U	107	0.00					
71193	02/11/93	CESIUM	113	U	113	113	U	113	0.00					
71393	02/23/93	CESIUM	93	U	93	95	U	95	0.00					
71393	02/23/93	CESIUM	89.4	U	89.4	81.5	U	81.5	0.00					
71593	03/03/93	CESIUM	107	U	107	108	U	108	0.00					
71793	03/02/93	CESIUM	111	U	111	111	U	111	0.00					
71993	02/20/93	CESIUM	122	U	122	113	U	113	0.00					
72193	02/26/93	CESIUM	110	U	110	105	U	105	0.00					
72193	02/26/93	CESIUM	115	U	115	107	U	107	0.00	16	0			
70493	01/29/93	CHROMIUM	14.9		.47	10.8		.42	31.90					
70493	01/30/93	CHROMIUM	144		.56	20.3		.52	151.00					
70593	01/19/93	CHROMIUM	5		.42	3.1		.5	47.00					
70593	01/22/93	CHROMIUM	6.9		.45	12.1		.57	54.70					
70593	01/22/93	CHROMIUM	11.8		.62	12.8		.51	8.10					
70993	02/03/93	CHROMIUM	8.4		.58	9.2		.52	9.10					
71093	02/04/93	CHROMIUM	6.8		.49	15.9		.57	80.20					
71193	02/11/93	CHROMIUM	8.5		.58	9.7		.56	13.20					
71193	02/11/93	CHROMIUM	7.4		.59	8.9		.59	18.40					
71393	02/23/93	CHROMIUM	7		.48	7.4		.49	6.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71393	02/23/93	CHROMIUM	11.1	.47	6.4			.42	53.70					
71593	03/03/93	CHROMIUM	9.4	.56	7.6			.56	21.20					
71793	03/02/93	CHROMIUM	10.5	.58	10.8			.58	2.80					
71993	02/20/93	CHROMIUM	11.5	.63	14.4			.59	22.40					
72193	02/26/93	CHROMIUM	17.1	.57	17			.55	1.00					
72193	02/26/93	CHROMIUM	8.8	.6	9.9			.56	11.80	16	5	33.28	38.65	116.14
70493	01/29/93	COBALT	2.9	.47	2.5			.42	14.80					
70493	01/30/93	COBALT	6.8	.56	4.4			.52	42.90					
70593	01/19/93	COBALT	1.3	.42	9.4			.5	151.40					
70593	01/22/93	COBALT	9.4	.45	16.6			.57	55.40					
70593	01/22/93	COBALT	9.7	.62	2.9			.51	107.90					
70993	02/03/93	COBALT	11.7	.58	9.1			.52	25.00					
71093	02/04/93	COBALT	3	.49	3.3			.57	10.00					
71193	02/11/93	COBALT	7.3	.58	5.5			.56	28.10					
71193	02/11/93	COBALT	5.6	.59	4.8			.59	15.40					
71393	02/23/93	COBALT	23.4	.48	11.5			.49	68.20					
71393	02/23/93	COBALT	8.5	.47	6.9			.42	20.80					
71593	03/03/93	COBALT	7.6	.56	12.5			.56	48.80					
71793	03/02/93	COBALT	7.3	.58	8.3			.58	12.80					
71993	02/20/93	COBALT	9.9	.63	8.7			.59	12.90					
72193	02/26/93	COBALT	3.8	.57	3.3			.55	14.10					
72193	02/26/93	COBALT	5.7	.6	5.7			.56	0.00	16	6	39.28	40.62	103.41
70493	01/29/93	COPPER	5.4	.52	4.4			.47	20.40					
70493	01/30/93	COPPER	28.2	.62	7.6			.58	115.10					
70593	01/19/93	COPPER	3.2	.47	7.6			.56	81.50					
70593	01/22/93	COPPER	15.3	.5	32.3			.64	71.40					
70593	01/22/93	COPPER	19	.69	27			.57	35.00					
70993	02/03/93	COPPER	20.8	.64	19.7			.58	5.40					
71093	02/04/93	COPPER	18.1	.54	18.5			.63	2.20					
71193	02/11/93	COPPER	15.8	.64	13.8			.62	13.50					
71193	02/11/93	COPPER	13.4	.66	12.5			.66	6.90					
71393	02/23/93	COPPER	17.1	.54	13.9			.55	20.60					
71393	02/23/93	COPPER	21.5	.52	17			.47	23.00					
71593	03/03/93	COPPER	20.6	.62	39.3			.63	62.40					
71793	03/02/93	COPPER	16	.65	17			.64	6.00					
71993	02/20/93	COPPER	21.6	.71	20.7			.66	4.30					
72193	02/28/93	COPPER	18.2	.64	17.4			.61	4.50					
72193	02/26/93	COPPER	19.7	.67	17.5			.62	11.80	16	4	30.25	33.97	112.31
70493	01/29/93	IRON	15400	1.3	9850			1.2	44.00					
70493	01/30/93	IRON	22400	1.6	9650			1.5	80.00					
70593	01/19/93	IRON	2600	1.2	2600			1.4	0.00					
70593	01/22/93	IRON	7440	1.3	30200			1.7	121.00					
70593	01/22/93	IRON	11200	1.8	4080			1.5	93.00					
70993	02/03/93	IRON	16000	1.7	16300			1.5	2.00					
71093	02/04/93	IRON	4880	1.4	6600			1.6	30.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71193	02/11/93	IRON	14600	1.7	13000	1.6	12.00							
71193	02/11/93	IRON	9650	1.7	9420	1.7	2.00							
71393	02/23/93	IRON	12000	1.4	9360	1.4	25.00							
71393	02/23/93	IRON	11500	1.3	12200	1.2	6.00							
71593	03/03/93	IRON	17800	1.6	61100	1.6	110.00							
71793	03/02/93	IRON	13800	1.7	13400	1.7	3.00							
71993	02/20/93	IRON	5040	1.8	5900	1.7	16.00							
72193	02/26/93	IRON	21400	1.6	15200	1.6	34.00							
72193	02/26/93	IRON	56500	1.7	68300	1.6	19.00	16	5	37.31	40.78	109.29		
70493	01/29/93	LEAD	5	.43	4.7	.2	6.00							
70493	01/30/93	LEAD	3.9	.4	3.8	.4	2.60							
70593	01/19/93	LEAD	16.8	1.2	15.7	1.1	6.80							
70593	01/22/93	LEAD	22.3	2.3	23.1	2.3	3.50							
70593	01/22/93	LEAD	22	2.2	19.3	2.4	13.00							
70993	02/03/93	LEAD	31.2	2.2	21.4	4.3	37.30							
71093	02/04/93	LEAD	20.5	2.2	21.9	2	6.60							
71193	02/11/93	LEAD	11.4	2.2	12.3	1.1	7.60							
71193	02/11/93	LEAD	9.5	1.1	14.2	1.1	39.70							
71393	02/23/93	LEAD	13.7	2.4	10.6	2.4	25.50							
71393	02/23/93	LEAD	14.9	2.4	24.6	2.2	49.10							
71593	03/03/93	LEAD	21.6	2.3	15.3	2.2	34.10							
71793	03/02/93	LEAD	18.3	1	13.7	1.1	28.80							
71993	02/20/93	LEAD	21	2.4	21.8	2.3	4.00							
72193	02/26/93	LEAD	24	1.2	15.2	1.2	45.00							
72193	02/26/93	LEAD	17.5	1.2	24	1.2	31.00	16	4	21.29	16.62	78.08		
70493	01/29/93	LITHIUM	5.8	.61	4.2	.55	32.00							
70493	01/30/93	LITHIUM	3.9	.73	4.2	.68	7.40							
70593	01/19/93	LITHIUM	2.3	.55	1.8	.65	24.40							
70593	01/22/93	LITHIUM	4.4	.59	6	.75	31.00							
70593	01/22/93	LITHIUM	5.8	.81	7.4	.67	24.20							
70993	02/03/93	LITHIUM	7.1	.75	7.6	.68	6.80							
71093	02/04/93	LITHIUM	3.4	.64	7.7	.74	77.50							
71193	02/11/93	LITHIUM	3.3	.75	3.6	.73	8.70							
71193	02/11/93	LITHIUM	2.4	.77	3.2	.77	28.60							
71393	02/23/93	LITHIUM	3.1	.63	3.2	.65	3.20							
71393	02/23/93	LITHIUM	4.6	.61	2.8	.55	48.60							
71593	03/03/93	LITHIUM	5.1	.73	3.4	.74	40.00							
71793	03/02/93	LITHIUM	3.6	.76	3.4	.75	5.70							
71993	02/20/93	LITHIUM	7.4	.83	9.9	.77	28.90							
72193	02/26/93	LITHIUM	9.6	.75	9.5	.71	1.00							
72193	02/26/93	LITHIUM	5.1	.78	6.3	.73	21.10	16	3	24.32	19.98	82.18		
70493	01/29/93	MAGNESIUM	2420	7	2300	6.3	5.00							
70493	01/30/93	MAGNESIUM	1730	8.4	1420	7.8	20.00							
70593	01/19/93	MAGNESIUM	1810	6.3	1410	7.4	25.00							
70593	01/22/93	MAGNESIUM	2220	6.8	2950	8.6	28.00							

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/22/93	MAGNESIUM	3020	9.3	2470			7.6	20.00					
70993	02/03/93	MAGNESIUM	2560	8.6	2670			7.8	4.00					
71093	02/04/93	MAGNESIUM	1840	7.3	2600			8.5	34.00					
71193	02/11/93	MAGNESIUM	1780	8.6	1910			8.4	7.00					
71193	02/11/93	MAGNESIUM	1610	8.8	1820			8.8	12.00					
71393	02/23/93	MAGNESIUM	1850	7.2	2080			7.4	12.00					
71393	02/23/93	MAGNESIUM	2590	7	1860			6.3	33.00					
71593	03/03/93	MAGNESIUM	2410	8.4	2170			8.4	10.00					
71793	03/02/93	MAGNESIUM	2060	8.7	2040			8.6	1.00					
71993	02/20/93	MAGNESIUM	2370	9.5	2500			8.8	5.00					
72193	02/26/93	MAGNESIUM	3230	8.5	3250			8.2	1.00					
72193	02/26/93	MAGNESIUM	2180	8.9	2390			8.4	9.00	16	0	14.13	11.10	78.58
70493	01/29/93	MANGANESE	41.3	.43	36.8			.39	11.50					
70493	01/30/93	MANGANESE	250	.52	150			.48	50.00					
70593	01/19/93	MANGANESE	7.1	.39	102			.46	174.00					
70593	01/22/93	MANGANESE	38.8	.42	196			.53	134.00					
70593	01/22/93	MANGANESE	38.7	.57	13.2			.47	98.30					
70993	02/03/93	MANGANESE	210	.53	211			.48	0.00					
71093	02/04/93	MANGANESE	20.2	.45	21.3			.52	5.30					
71193	02/11/93	MANGANESE	164	.53	107			.52	42.00					
71193	02/11/93	MANGANESE	70.4	.54	71.2			.54	1.10					
71393	02/23/93	MANGANESE	548	.45	142			.46	118.00					
71393	02/23/93	MANGANESE	87.3	.43	129			.39	39.00					
71593	03/03/93	MANGANESE	41.3	.52	155			.52	116.00					
71793	03/02/93	MANGANESE	209	.53	301			.53	36.00					
71993	02/20/93	MANGANESE	23.2	.58	41.1			.54	55.70					
72193	02/26/93	MANGANESE	242	.53	75.7			.5	105.00					
72193	02/26/93	MANGANESE	1160	.55	1320			.52	13.00	16	11	62.43	54.44	87.20
70493	01/29/93	MERCURY	.1	U	.1	.08	U	.08	0.00					
70493	01/30/93	MERCURY	.096	U	.096	.098	U	.098	0.00					
70593	01/19/93	MERCURY	.11	U	.11	.09	U	.093	0.00					
70593	01/22/93	MERCURY	.1	U	.1	.1	U	.1	0.00					
70593	01/22/93	MERCURY	.11	U	.11	.18		.097	48.28					
70993	02/03/93	MERCURY	.08	U	.08	.11	U	.11	0.00					
71093	02/04/93	MERCURY	.1		.091	.087	U	.086	13.90					
71193	02/11/93	MERCURY	.096	U	.096	.089	U	.089	0.00					
71193	02/11/93	MERCURY	.091	U	.091	.11	U	.11	0.00					
71393	02/23/93	MERCURY	.12	U	.12	.1	U	.1	0.00					
71393	02/23/93	MERCURY	.099	U	.099	.093	U	.093	0.00					
71593	03/03/93	MERCURY	.11	U	.11	.084	U	.084	0.00					
71793	03/02/93	MERCURY	.081	U	.081	.079	U	.079	0.00					
71993	02/20/93	MERCURY	.095	U	.095	.29		.11	101.30					
72193	02/26/93	MERCURY	.3		.1	.11	U	.11	92.70					
72193	02/26/93	MERCURY	.095		.084	.096	U	.096	1.05	16	3	16.08	33.91	210.91
70493	01/29/93	MOLYBDENUM	1.2	U	1.2	1.1	U	1.1	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70493	01/30/93	MOLYBDENUM	13.8		1.4	1.3	U	1.3	165.60					
70593	01/19/93	MOLYBDENUM	1.1	U	1.1	1.2	U	1.2	0.00					
70593	01/22/93	MOLYBDENUM	1.1	U	1.1	2.2	U	1.4	66.70					
70593	01/22/93	MOLYBDENUM	1.6	U	1.6	1.3	U	1.3	0.00					
70993	02/03/93	MOLYBDENUM	1.4	U	1.4	1.3	U	1.3	0.00					
71093	02/04/93	MOLYBDENUM	1.2	U	1.2	1.4	U	1.4	0.00					
71193	02/11/93	MOLYBDENUM	1.4	U	1.4	1.4	U	1.4	0.00					
71193	02/11/93	MOLYBDENUM	1.5	U	1.5	1.5	U	1.5	0.00					
71393	02/23/93	MOLYBDENUM	1.2	U	1.2	1.2	U	1.2	0.00					
71393	02/23/93	MOLYBDENUM	1.2	U	1.2	1.1	U	1.1	0.00					
71593	03/03/93	MOLYBDENUM	1.4	U	1.4	1.4	U	1.4	0.00					
71793	03/02/93	MOLYBDENUM	1.8		1.4	3.7		1.4	69.10					
71993	02/20/93	MOLYBDENUM	1.6	U	1.6	1.5	U	1.5	0.00					
72193	02/26/93	MOLYBDENUM	3		1.4	1.4	U	1.4	73.00					
72193	02/26/93	MOLYBDENUM	1.5	U	1.5	1.4	U	1.4	0.00	16	4	23.40	47.06	201.10
70493	01/29/93	NICKEL	9.9		2	6.5		1.8	41.50					
70493	01/30/93	NICKEL	33.2		2.4	8.6		2.2	117.70					
70593	01/19/93	NICKEL	1.8	U	1.8	5.3		2.1	98.60					
70593	01/22/93	NICKEL	24.2		1.9	43.2		2.4	56.40					
70593	01/22/93	NICKEL	23.5		2.6	11.8		2.2	66.30					
70993	02/03/93	NICKEL	19.2		2.4	18.3		2.2	4.80					
71093	02/04/93	NICKEL	9.4		2.1	6.5		2.4	36.50					
71193	02/11/93	NICKEL	19.2		2.4	16.2		2.4	16.90					
71193	02/11/93	NICKEL	14.1		2.5	12.9		2.5	8.90					
71393	02/23/93	NICKEL	21.7		2	11.8		2.1	59.10					
71393	02/23/93	NICKEL	17.1		2	18		1.8	5.00					
71593	03/03/93	NICKEL	23.3		2.4	43.4		2.4	60.30					
71793	03/02/93	NICKEL	14.8		2.4	14.3		2.4	3.40					
71993	02/20/93	NICKEL	15.3		2.7	14.4		2.5	6.10					
72193	02/26/93	NICKEL	7.6		2.4	7.8		2.3	2.60					
72193	02/26/93	NICKEL	4		2.5	3.8		2.4	5.00	16	8	36.82	36.64	99.52
70493	01/29/93	POTASSIUM	1060		140	915		127	15.00					
70493	01/30/93	POTASSIUM	837		168	898		156	7.00					
70593	01/19/93	POTASSIUM	313		127	237		149	28.00					
70593	01/22/93	POTASSIUM	483		135	1050		172	74.00					
70593	01/22/93	POTASSIUM	958		186	882		153	8.00					
70993	02/03/93	POTASSIUM	972		173	924		155	5.00					
71093	02/04/93	POTASSIUM	892		146	1710		170	63.00					
71193	02/11/93	POTASSIUM	1010		172	1120		167	10.00					
71193	02/11/93	POTASSIUM	914		176	1000		176	9.00					
71393	02/23/93	POTASSIUM	627		145	747		148	17.00					
71393	02/23/93	POTASSIUM	1100		139	654		127	51.00					
71593	03/03/93	POTASSIUM	1230		167	859		169	36.00					
71793	03/02/93	POTASSIUM	1240		173	1270		173	2.00					
71993	02/20/93	POTASSIUM	888		190	1070		176	19.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
72193	02/26/93	POTASSIUM	1680		171	1650		163	2.00						
72193	02/26/93	POTASSIUM	798		179	947		167	17.00	16	4	22.69	22.18	97.78	
70493	01/29/93	SELENIUM	.28	U	.28	.27	U	.27	0.00						
70493	01/30/93	SELENIUM	.26	U	.26	.26	U	.26	0.00						
70593	01/19/93	SELENIUM	.32	U	.32	.29	U	.29	0.00						
70593	01/22/93	SELENIUM	.31	U	.31	.3	U	.3	0.00						
70593	01/22/93	SELENIUM	.58		.29	1.1			.31	61.90					
70993	02/03/93	SELENIUM	.52		.28	.73			.28	33.60					
71093	02/04/93	SELENIUM	.28	U	.28	.26	U	.26	0.00						
71193	02/11/93	SELENIUM	.29	U	.29	.36	U	.3	21.54						
71193	02/11/93	SELENIUM	.29	U	.29	.3	U	.3	0.00						
71393	02/23/93	SELENIUM	.31	U	.31	.31	U	.31	0.00						
71393	02/23/93	SELENIUM	.31	U	.31	.42			.29	30.14					
71593	03/03/93	SELENIUM	.3	U	.3	.29	U	.29	0.00						
71793	03/02/93	SELENIUM	.27	U	.27	.29	U	.29	0.00						
71993	02/20/93	SELENIUM	2		.32	1.7			.3	16.00					
72193	02/26/93	SELENIUM	.31	U	.31	.32	U	.32	0.00						
72193	02/26/93	SELENIUM	.38		.31	.3	U	.3	23.50	16	1	11.67	18.19	155.90	
70493	01/29/93	SILICON	154		1.3	190			1.2	21.00					
70493	01/30/93	SILICON	39.6		1.6	186			1.5	130.00					
70593	01/19/93	SILICON	116		1.4	206			1.6	56.00					
70593	01/22/93	SILICON	200		1.7	229			1.7	14.00					
70593	01/22/93	SILICON	294		1.7	304			1.4	3.00					
70993	02/03/93	SILICON	296		1.6	306			1.5	3.00					
71093	02/04/93	SILICON	562		1.4	686			1.6	20.00					
71193	02/11/93	SILICON	103		1.6	95.5			1.6	8.00					
71193	02/11/93	SILICON	141		1.6	105			1.7	29.00					
71393	02/23/93	SILICON	130		1.4	162			1.4	22.00					
71393	02/23/93	SILICON	129		1.3	84.8			1.2	41.00					
71593	03/03/93	SILICON	138		1.6	212			1.6	42.00					
71793	03/02/93	SILICON	694		1.6	914			1.6	27.00					
71993	02/20/93	SILICON	187		1.8	155			1.7	19.00					
72193	02/26/93	SILICON	803		1.6	448			1.5	57.00					
72193	02/26/93	SILICON	408		1.7	662			1.6	47.00	16	6	33.69	30.89	91.70
70493	01/29/93	SILVER	.65	U	.65	.59	U	.59	0.00						
70493	01/30/93	SILVER	.78	U	.78	.72	U	.72	0.00						
70593	01/19/93	SILVER	.59	U	.59	.69	U	.69	0.00						
70593	01/22/93	SILVER	.62	U	.62	.8	U	.8	0.00						
70593	01/22/93	SILVER	.86	U	.86	.71	U	.71	0.00						
70993	02/03/93	SILVER	.8	U	.8	.72	U	.72	0.00						
71093	02/04/93	SILVER	.67	U	.67	.79	U	.79	0.00						
71193	02/11/93	SILVER	.8	U	.8	.77	U	.77	0.00						
71193	02/11/93	SILVER	.81	U	.81	.81	U	.81	0.00						
71393	02/23/93	SILVER	.67	U	.67	.68	U	.68	0.00						
71393	02/23/93	SILVER	.64	U	.64	.59	U	.59	0.00						

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
71593	03/03/93	SILVER	.88		.77	2.4		.78	92.70						
71793	03/02/93	SILVER	.8	U	.8	.8	U	.8	0.00						
71993	02/20/93	SILVER	.88	U	.88	.81	U	.81	0.00						
72193	02/26/93	SILVER	.81		.79	.75	U	.75	7.69						
72193	02/26/93	SILVER	1.8		.83	2.1		.77	15.40	16	1	7.24	23.17	320.14	
70493	01/29/93	SODIUM	103		11.1	99.3		10	4.00						
70493	01/30/93	SODIUM	75.7		13.3	84.3			12.4	10.80					
70593	01/19/93	SODIUM	68.6		10	64			11.8	7.00					
70593	01/22/93	SODIUM	83.7		10.7	96			13.6	14.00					
70593	01/22/93	SODIUM	100		14.7	102			12.1	2.00					
70993	02/03/93	SODIUM	939		13.7	993			12.3	6.00					
71093	02/04/93	SODIUM	285		11.5	315			13.4	10.00					
71193	02/11/93	SODIUM	54.7		13.6	65.6			13.2	18.10					
71193	02/11/93	SODIUM	56.5		13.9	60.1			13.9	6.20					
71393	02/23/93	SODIUM	76.4		11.5	79.2			11.7	3.60					
71393	02/23/93	SODIUM	98.1		11	73.7			10	28.40					
71593	03/03/93	SODIUM	91.1		13.2	77.2			13.4	16.50					
71793	03/02/93	SODIUM	86.4		13.7	107			13.7	21.00					
71993	02/20/93	SODIUM	384		15	369			13.9	4.00					
72193	02/26/93	SODIUM	407		13.5	369			12.9	10.00					
72193	02/26/93	SODIUM	361		14.1	364			13.2	1.00	16	0	10.16	7.66	75.41
70493	01/29/93	STRONTIUM	26.4		.99	25.2			.9	4.70					
70493	01/30/93	STRONTIUM	19.4		1.2	14			1.1	32.00					
70593	01/19/93	STRONTIUM	37.7		.89	35.9			1.1	4.90					
70593	01/22/93	STRONTIUM	51.2		.95	84.3			1.2	48.90					
70593	01/22/93	STRONTIUM	71		1.3	68.7			1.1	3.00					
70993	02/03/93	STRONTIUM	86.5		1.2	87.1			1.1	0.70					
71093	02/04/93	STRONTIUM	197		1	223			1.2	12.00					
71193	02/11/93	STRONTIUM	45.3		1.2	47.8			1.2	5.40					
71193	02/11/93	STRONTIUM	45.7		1.2	50.8			1.2	10.60					
71393	02/23/93	STRONTIUM	44.4		1	48.6			1	9.00					
71393	02/23/93	STRONTIUM	68.7		.98	45.9			.9	39.80					
71593	03/03/93	STRONTIUM	61.1		1.2	46			1.2	28.00					
71793	03/02/93	STRONTIUM	65.1		1.2	69.1			1.2	6.00					
71993	02/20/93	STRONTIUM	65.3		1.3	72.1			1.2	9.90					
72193	02/26/93	STRONTIUM	90.7		1.2	.71			1.2	24.00					
72193	02/26/93	STRONTIUM	62		1.3	65.7			1.2	6.00	16	2	15.31	14.61	95.47
70493	01/29/93	THALLIUM	.32	U	.32	.31	U	.31	0.00						
70493	01/30/93	THALLIUM	.3	U	.3	.3	U	.3	0.00						
70593	01/19/93	THALLIUM	.44		.39	.35	U	.35	22.78						
70593	01/22/93	THALLIUM	.38	U	.38	.39	U	.37	2.60						
70593	01/22/93	THALLIUM	.38		.36	.36	U	.36	5.41						
70993	02/03/93	THALLIUM	.33	U	.33	.32	U	.32	0.00						
71093	02/04/93	THALLIUM	.32	U	.32	.3	U	.3	0.00						
71193	02/11/93	THALLIUM	.33	U	.33									NC	

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 36%	Avg	StDev	%CV
71193	02/11/93	THALLIUM				.34	U	.34	NC					
71593	03/03/93	THALLIUM	.37	U	.37	.36	U	.36	0.00					
71993	02/20/93	THALLIUM	.37	U	.37	.35	U	.35	0.00					
72193	02/26/93	THALLIUM				.36	U	.36	NC					
72193	02/26/93	THALLIUM	.35	U	.35	.35	U	.35	0.00	10	0	3.08	7.15	232.23
70493	01/29/93	TIN	8.5		3	4.3		2.7	65.60					
70493	01/30/93	TIN	4.3		3.6	7.1		3.4	49.10					
70593	01/19/93	TIN	2.7	U	2.7	3.2	U	3.2	0.00					
70593	01/22/93	TIN	2.9	U	2.9	3.7	U	3.7	0.00					
70593	01/22/93	TIN	4	U	4	3.3	U	3.3	0.00					
70993	02/03/93	TIN	3.7	U	3.7	9.1		3.3	84.40					
71093	02/04/93	TIN	3.1	U	3.1	3.6	U	3.6	0.00					
71193	02/11/93	TIN	3.7	U	3.7	3.6	U	3.6	0.00					
71193	02/11/93	TIN	4		3.8	3.8	U	3.8	5.00					
71393	02/23/93	TIN	3.1	U	3.1	3.2	U	3.2	0.00					
71393	02/23/93	TIN	3	U	3	2.7	U	2.7	0.00					
71593	03/03/93	TIN	3.6	U	3.6	3.6	U	3.6	0.00					
71793	03/02/93	TIN	3.7	U	3.7	3.7	U	3.7	0.00					
71993	02/20/93	TIN	6.1		4.1	4.4		3.8	32.40					
72193	02/26/93	TIN	3.7	U	3.7	3.5	U	3.5	0.00					
72193	02/26/93	TIN	3.8	U	3.8	3.6	U	3.6	0.00	16	3	14.78	27.59	186.64
70493	01/29/93	VANADIUM	22.9		.58	10.9		.52	71.00					
70493	01/30/93	VANADIUM	11.9		.69	10.7		.64	10.60					
70593	01/19/93	VANADIUM	3.2		.52	4.5		.61	33.80					
70593	01/22/93	VANADIUM	8.7		.56	27.8		.71	104.70					
70593	01/22/93	VANADIUM	14.5		.76	13.9		.63	4.20					
70993	02/03/93	VANADIUM	23.2		.71	22.1		.64	4.90					
71093	02/04/93	VANADIUM	17.7		.6	32.2		.7	58.10					
71193	02/11/93	VANADIUM	17.3		.71	17.6		.69	1.70					
71193	02/11/93	VANADIUM	12.2		.72	14		.72	14.00					
71393	02/23/93	VANADIUM	10.5		.59	9.4		.61	11.10					
71393	02/23/93	VANADIUM	16.9		.57	11.3		.52	39.70					
71593	03/03/93	VANADIUM	15.4		.69	18.9		.69	20.40					
71793	03/02/93	VANADIUM	20.4		.71	20.8		.71	1.90					
71993	02/20/93	VANADIUM	21.5		.78	25.9		.72	18.60					
72193	02/26/93	VANADIUM	29.6		.7	28		.67	6.00					
72193	02/26/93	VANADIUM	22.7		.73	24.8		.69	8.80	16	4	25.59	29.41	114.90
70493	01/29/93	ZINC	17.6		.43	13.5		.39	26.40					
70493	01/30/93	ZINC	15.2		.52	13.6		.48	11.10					
70593	01/19/93	ZINC	18.2		.39	13.6		.46	28.90					
70593	01/22/93	ZINC	66.6		.42	123		.53	59.00					
70593	01/22/93	ZINC	76.1		.57	33.2		.47	78.50					
70993	02/03/93	ZINC	70.8		.53	71.2		.48	0.60					
71093	02/04/93	ZINC	62.8		.45	60.8		.52	3.20					
71193	02/11/93	ZINC	54.4		.53	54.5		.52	0.20					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71193	02/11/93	ZINC	44.5	.54	46.1	.54	.54	.54	3.50					
71393	02/23/93	ZINC	63.4	.45	53.6	.46	.46	.46	16.80					
71393	02/23/93	ZINC	75.9	.43	72.5	.39	.39	.39	4.60					
71593	03/03/93	ZINC	89	.52	208	.52	.52	.52	80.00					
71793	03/02/93	ZINC	70.9	.53	72.9	.53	.53	.53	2.80					
71993	02/20/93	ZINC	139	.58	117	.54	.54	.54	17.00					
72193	02/26/93	ZINC	78.2	.53	88.6	.5	.5	.5	12.50					
72193	02/26/93	ZINC	42.4	.55	43.5	.52	.52	.52	2.60	16	3	21.73	26.99	124.21
70593	01/19/93	AMERICIUM-241	0	J	0	.004035	J	0	200.00					
70593	01/22/93	AMERICIUM-241	.003121	J	0	.0005385	J	0	141.14					
70593	01/22/93	AMERICIUM-241	.00147	J	0	.001332	J	0	9.85					
70993	02/03/93	AMERICIUM-241	.004228	J	0	.001326	J	0	104.50					
71093	02/04/93	AMERICIUM-241	.003061	J	0.000	.00186	J	0.000	48.81					
71193	02/11/93	AMERICIUM-241	.001322	J	0.002	0	J	0.000	200.00					
71193	02/11/93	AMERICIUM-241	.0008612	J	0.000	.003795	J	0.002	126.02					
71593	03/03/93	AMERICIUM-241				.00297		.007	NC					
71993	02/20/93	AMERICIUM-241	.03341		0.000	.01703	J	.007	64.95					
72193	02/26/93	AMERICIUM-241	.0051		.002	.002102	J	.008	83.25					
72193	02/26/93	AMERICIUM-241	.003594		.002	.00475		.007	27.71	10	8	100.62	66.56	66.14
71393	02/23/93	CESIUM-134	.066	U		.077	U		0.00					
71393	02/23/93	CESIUM-134	.082	U		.073	U		0.00					
71593	03/03/93	CESIUM-134	.066	U		.063	U		0.00					
71793	03/02/93	CESIUM-134	.08	U		.077	U		0.00					
72193	02/26/93	CESIUM-134				.061	U		NC	4	0			
70593	01/19/93	CESIUM-137	-.025	J	.1	.02165	J	.1	2785.08					
70593	01/22/93	CESIUM-137	.04268	J	.1	.0117	J	.1	113.94					
70593	01/22/93	CESIUM-137	-.000474	J	.1	.0342	J	.1	205.62					
70993	02/03/93	CESIUM-137	.0007486	J	.1	-.02	J	.1	215.55					
71093	02/04/93	CESIUM-137	-.0272	J	.1	-.019	J	.1	35.50					
71193	02/11/93	CESIUM-137	.009228	J	.1	-.015	J	.1	839.50					
71193	02/11/93	CESIUM-137	-.0175	J	.1	-.0207	J	.1	16.75					
71393	02/23/93	CESIUM-137	.072	U		.1	U		0.00					
71393	02/23/93	CESIUM-137	.092	U		.095	U		0.00					
71593	03/03/93	CESIUM-137	.074	U		.078	U		0.00					
71793	03/02/93	CESIUM-137	.095	U		.094	U		0.00					
71993	02/20/93	CESIUM-137	.01645	J	.1	-.0558	J	.1	367.22					
72193	02/26/93	CESIUM-137	.02424	J	.062	.001776	J	.0602	172.69					
72193	02/26/93	CESIUM-137	-.000593	J	.0696	.063	U		200.00	14	9	353.70	734.73	207.73
70593	01/19/93	GROSS ALPHA	11.29		2.4	17.68		2.4	44.11					
70593	01/22/93	GROSS ALPHA	11.26		3.2	11.01		3.1	2.25					
70593	01/22/93	GROSS ALPHA	15.87		2.6	14.95		2.1	5.97					
70993	02/03/93	GROSS ALPHA	11.45		2.7	10.79		2.7	5.94					
71093	02/04/93	GROSS ALPHA	11.72		1.9	10.67		3.1	9.38					
71193	02/11/93	GROSS ALPHA	8.739		3.06	12.45		2.11	35.03					
71193	02/11/93	GROSS ALPHA	11.15		3.47	9.014		2.41	21.19					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71393	02/23/93	GROSS ALPHA	15.7		3.6	16.5		3.5	5.00					
71393	02/23/93	GROSS ALPHA	16.9		4.1	18		3.2	6.00					
71593	03/03/93	GROSS ALPHA	16.2		3.2				NC					
71793	03/02/93	GROSS ALPHA	20.3		3.3	19.4		3.8	4.50					
71993	02/20/93	GROSS ALPHA	9.904		2.83	8.303		1.88	17.59					
72193	02/26/93	GROSS ALPHA	16.9		2.84	18.51		2.62	9.10					
72193	02/26/93	GROSS ALPHA	7.233		2.37				NC	12	2	13.84	13.35	96.49
70593	01/19/93	GROSS BETA	20.85		2.4	18.93		2.6	9.65					
70593	01/22/93	GROSS BETA	28.93		1.1	26.33		2.3	9.41					
70593	01/22/93	GROSS BETA	25.64		2.3	24.89		2.3	2.97					
70993	02/03/93	GROSS BETA	23.12		2.4	23.24		2.5	0.52					
71093	02/04/93	GROSS BETA	21.65		2.4	22.21		2.5	2.55					
71193	02/11/93	GROSS BETA	24.87		2.55	24.34		2.52	2.15					
71193	02/11/93	GROSS BETA	25.3		2.26	24.69		2.55	2.40					
71393	02/23/93	GROSS BETA	25.6		2.7	24.5		2.7	4.40					
71393	02/23/93	GROSS BETA	29.1		2.6	24.4		2.5	17.60					
71593	03/03/93	GROSS BETA	25.3		2.6	22.5		2.7	11.70					
71793	03/02/93	GROSS BETA	26.4		2.6	24.4		2.6	7.90					
71993	02/20/93	GROSS BETA	18.69		2.41	18.14		2.4	2.99					
72193	02/26/93	GROSS BETA	24.64		2.07	26.78		1.95	8.32					
72193	02/26/93	GROSS BETA	20.94		2.11	19.2		2.6	8.70	14	0	6.52	4.76	73.08
70593	01/19/93	PLUTONIUM-239/240	.006227	J	0	.0006316	J	0	163.16					
70593	01/22/93	PLUTONIUM-239/240	.001918	J	0	0	J	0	200.00					
70593	01/22/93	PLUTONIUM-239/240	0	J	0	.005912	J	0	200.00					
70993	02/03/93	PLUTONIUM-239/240	.003924	J	0	0	J	0	200.00					
71093	02/04/93	PLUTONIUM-239/240	-.0221	J		0	J	.020	200.00					
71193	02/11/93	PLUTONIUM-239/240	0	J		.00328	J	0.015	200.00					
71193	02/11/93	PLUTONIUM-239/240	-.0034	J	0.015	.0008153	J	0.017	326.17					
71593	03/03/93	PLUTONIUM-239/240				-.00261		.012	NC					
71993	02/20/93	PLUTONIUM-239/240	.2657		0.000	.0764		.012	110.67					
72193	02/26/93	PLUTONIUM-239/240	.01051		.009	.05444		.015	135.27					
72193	02/26/93	PLUTONIUM-239/240	.02433		.007	.0083		.000	98.25	10	10	183.35	64.14	34.98
70593	01/19/93	RADIUM-226	1.034		.5	1.017		.5	1.66					
70593	01/22/93	RADIUM-226	1.085		.5	.7367		.5	38.24					
70593	01/22/93	RADIUM-226	.8103		.5	1.081		.5	28.63					
70993	02/03/93	RADIUM-226	1.258		.5	1.241		.5	1.36					
71093	02/04/93	RADIUM-226	1.048		.5	1.079		.5	2.92					
71193	02/11/93	RADIUM-226	1.101		.5	.9297		.5	16.87					
71193	02/11/93	RADIUM-226	.9445		.5	.8465		.5	10.94					
71393	02/23/93	RADIUM-226	1.21			1.12			7.73					
71393	02/23/93	RADIUM-226	1.1			1.08			1.80					
71593	03/03/93	RADIUM-226	1.19						NC					
71793	03/02/93	RADIUM-226	.952			1.01			5.91					
71993	02/20/93	RADIUM-226	1.404		.5	1.536		.5	8.98					
72193	02/26/93	RADIUM-226	.9889	X	0	1.884	X	0	62.31					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV	
72193	02/26/93	RADIUM-226	1.607	X	0					NC	12	2	15.61	18.67	119.61
70593	01/19/93	RADIUM-228	.9945		.5	1.875		.5	61.37						
70593	01/22/93	RADIUM-228	1.701		.5	1.527		.5	10.78						
70593	01/22/93	RADIUM-228	1.327		.5	2.016		.5	41.22						
70993	02/03/93	RADIUM-228	1.384		.5	1.408		.5	1.72						
71093	02/04/93	RADIUM-228	1.363		.5	1.44		.5	5.49						
71193	02/11/93	RADIUM-228	1.219		.5	1.128		.5	7.76						
71193	02/11/93	RADIUM-228	1.257		.5	1.1		.5	13.30						
71393	02/23/93	RADIUM-228	1.55				1.37				12.33				
71393	02/23/93	RADIUM-228	1.3				1.32				1.50				
71593	03/03/93	RADIUM-228	1.66								NC				
71793	03/02/93	RADIUM-228	1.26			1.28					1.57				
71993	02/20/93	RADIUM-228	1.686		.5	1.568		.5	7.25						
72193	02/26/93	RADIUM-228	1.592	X	0	1.781	X	0	11.21						
72193	02/26/93	RADIUM-228	1.777	X	0					NC	12	2	14.62	18.14	124.05
70593	01/19/93	STRONTIUM-89,90	.07215	J	.04	.04866	J	.04	38.89						
70593	01/22/93	STRONTIUM-89,90	.03299	J	.04	.08675	J	.04	89.79						
70593	01/22/93	STRONTIUM-89,90	.1892	J	.04	.02607	J	.04	151.56						
70993	02/03/93	STRONTIUM-89,90	.1067	J	.05	.7288	J	.01	148.92						
71093	02/04/93	STRONTIUM-89,90	.1446	J	.04	.03373	J	.04	124.34						
71193	02/11/93	STRONTIUM-89,90	.04415	J	.05	.04842	J	.06	9.23						
71193	02/11/93	STRONTIUM-89,90	.05591	J	.05	.01263	J	.06	126.29						
71393	02/23/93	STRONTIUM-89,90	.24		.4	.974		.4	120.92						
71393	02/23/93	STRONTIUM-89,90	.167		.4	.563		.4	108.49						
71593	03/03/93	STRONTIUM-89,90	.566		.4					NC					
71793	03/02/93	STRONTIUM-89,90	.166		.4	.207		.4	21.98						
71993	02/20/93	STRONTIUM-89,90	.486	J	.05	.1792	J	.05	92.24						
72193	02/26/93	STRONTIUM-89,90	.04602	J	.0479648	.005144	J	.0492886	159.78						
72193	02/26/93	STRONTIUM-89,90	.04187	J	.0463717					NC	12	10	99.37	51.03	51.35
70593	01/19/93	TRITIUM	58.92	J	450	130.4	J	450	75.50						
70593	01/22/93	TRITIUM	36.7	J	450	-29	J	450	1706.00						
70593	01/22/93	TRITIUM	19.31	J	460	-85.9	J	450	316.00						
70993	02/03/93	TRITIUM	86.96	J	440	20.29	J	440	124.33						
71093	02/04/93	TRITIUM	29.96	J	450	44.45	J	450	38.95						
71193	02/11/93	TRITIUM	28.99	J	400	-109	J	400	345.00						
71193	02/11/93	TRITIUM	75.38	J	400	161.4	J	400	72.70						
71393	02/23/93	TRITIUM	48			-28				760.00					
71393	02/23/93	TRITIUM	-11			-92				157.00					
71593	03/03/93	TRITIUM	-56			29				630.00					
71793	03/02/93	TRITIUM	85			34				86.00					
71993	02/20/93	TRITIUM	187.5	J	460	162.3	J	460	14.40						
72193	02/26/93	TRITIUM	125.7	J	252.7	83.17	J	252.7	40.70						
72193	02/26/93	TRITIUM	113.2	J	252.7	52				74.00	13	12	335.78	474.32	141.26
70593	01/19/93	URANIUM-233,-234	1.116		.053	.9846		.042	12.51						
70593	01/22/93	URANIUM-233,-234	1.651		.034	1.094		.043	40.58						

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/22/93	URANIUM-233,-234	1.001	.045	1.085			.046	8.05					
70993	02/03/93	URANIUM-233,-234	1.408	.043	1.16			.032	19.31					
71093	02/04/93	URANIUM-233,-234	.9129	.021	1.165			.041	24.27					
71193	02/11/93	URANIUM-233,-234	1.256	0.035	1.174			0.026	6.75					
71193	02/11/93	URANIUM-233,-234	.9694	0.019	1.108			0.039	13.34					
71393	02/23/93	URANIUM-233,-234	1.57	.014	1.06			0	38.78					
71393	02/23/93	URANIUM-233,-234	1.06	0	1.38			0	26.23					
71593	03/03/93	URANIUM-233,-234	.961	.01	1.02			.000	5.96					
71793	03/02/93	URANIUM-233,-234	1.04	.025	1.12			.014	7.41					
71993	02/20/93	URANIUM-233,-234	1.729	.057	1.603			.036	7.56					
72193	02/26/93	URANIUM-233,-234	1.361	.054	1.865			.076	31.25					
72193	02/26/93	URANIUM-233,-234	2.181	.058	2.14			.023	1.90	14	2	17.42	12.78	73.37
70593	01/19/93	URANIUM-235	.04706	J	.038	.0673	J	.024	35.40					
70593	01/22/93	URANIUM-235	.0575	J	0	.05639	J	.031	1.95					
70593	01/22/93	URANIUM-235	.05079	J	.032	.03344	J	.04	41.20					
70993	02/03/93	URANIUM-235	.05718	J	0	.03092	J	.023	59.61					
71093	02/04/93	URANIUM-235	.04978	J	.021	.04018	J	0.000	21.34					
71193	02/11/93	URANIUM-235	.0297	J	0.038	.04746	J	0.018	46.03					
71193	02/11/93	URANIUM-235	.04054	J	.027	.04321	J	.021	6.38					
71393	02/23/93	URANIUM-235	.0848		0	.0742		0	13.33					
71393	02/23/93	URANIUM-235	.0494		.014	.062		0	22.62					
71593	03/03/93	URANIUM-235	.0424		.01	.0527		.000	21.66					
71793	03/02/93	URANIUM-235	.0076		.011	.0298		0	118.72					
71993	02/20/93	URANIUM-235	.09592	J	0.000	.09983	J	.036	3.99					
72193	02/26/93	URANIUM-235	.07243		.051	.05493	J	.069	27.48					
72193	02/26/93	URANIUM-235	.1042		.048	.0827		.000	23.01	14	5	31.62	29.97	94.77
70593	01/19/93	URANIUM-238	1.074		0	.9787		0	9.29					
70593	01/22/93	URANIUM-238	1.505		.024	1.038		.043	36.73					
70593	01/22/93	URANIUM-238	.879		0	1.092		0	21.61					
70993	02/03/93	URANIUM-238	1.309		.03	1.414		.023	7.71					
71093	02/04/93	URANIUM-238	1.232		.021	1.305		.029	5.76					
71193	02/11/93	URANIUM-238	1.206		.044	1.211		.034	0.41					
71193	02/11/93	URANIUM-238	1.283		.019	1.309		.042	2.01					
71393	02/23/93	URANIUM-238	1.4		0	1.09		0	24.90					
71393	02/23/93	URANIUM-238	1.13		0	1.32		0	15.51					
71593	03/03/93	URANIUM-238	.958		.01	.999		.000	4.19					
71793	03/02/93	URANIUM-238	1.07		.016	.86		.01	21.76					
71993	02/20/93	URANIUM-238	1.48		0.000	1.537		0.000	3.78					
72193	02/26/93	URANIUM-238	1.599		.046	2.104		.034	27.28					
72193	02/26/93	URANIUM-238	1.773		.058	1.48		.016	18.01	14	1	14.21	11.12	78.23
70593	01/19/93	1,1,1-TRICHLOROETHANE	6	U	6				NC					
70593	01/22/93	1,1,1-TRICHLOROETHANE	6	U	6				NC					
70593	01/22/93	1,1,1-TRICHLOROETHANE	6	U	6				NC					
70993	02/03/93	1,1,1-TRICHLOROETHANE	6	U	6				NC					
71093	02/04/93	1,1,1-TRICHLOROETHANE	6	U	6				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/22/93	1,1-DICHLOROETHENE	6	U	6				NC					
70993	02/03/93	1,1-DICHLOROETHENE	6	U	6				NC					
71093	02/04/93	1,1-DICHLOROETHENE	6	U	6				NC					
71193	02/11/93	1,1-DICHLOROETHENE	6	U	6				NC					
71193	02/11/93	1,1-DICHLOROETHENE	6	U	6				NC					
71593	03/03/93	1,1-DICHLOROETHENE	6	U	6				NC					
71793	03/02/93	1,1-DICHLOROETHENE	6	U	6				NC					
71993	02/20/93	1,1-DICHLOROETHENE	6	U	6				NC					
72193	02/26/93	1,1-DICHLOROETHENE	6	U	6				NC					
72193	02/26/93	1,1-DICHLOROETHENE	6	U	6				NC	0				
70593	01/19/93	1,2-DICHLOROETHANE	6	U	6				NC					
70593	01/22/93	1,2-DICHLOROETHANE	6	U	6				NC					
70593	01/22/93	1,2-DICHLOROETHANE	6	U	6				NC					
70993	02/03/93	1,2-DICHLOROETHANE	6	U	6				NC					
71093	02/04/93	1,2-DICHLOROETHANE	6	U	6				NC					
71193	02/11/93	1,2-DICHLOROETHANE	6	U	6				NC					
71193	02/11/93	1,2-DICHLOROETHANE	6	U	6				NC					
71593	03/03/93	1,2-DICHLOROETHANE	6	U	6				NC					
71793	03/02/93	1,2-DICHLOROETHANE	6	U	6				NC					
71993	02/20/93	1,2-DICHLOROETHANE	6	U	6				NC					
72193	02/26/93	1,2-DICHLOROETHANE	6	U	6				NC					
72193	02/26/93	1,2-DICHLOROETHANE	6	U	6				NC	0				
70593	01/19/93	1,2-DICHLOROETHENE	6	U	6				NC					
70593	01/22/93	1,2-DICHLOROETHENE	6	U	6				NC					
70593	01/22/93	1,2-DICHLOROETHENE	6	U	6				NC					
70993	02/03/93	1,2-DICHLOROETHENE	6	U	6				NC					
71093	02/04/93	1,2-DICHLOROETHENE	6	U	6				NC					
71193	02/11/93	1,2-DICHLOROETHENE	6	U	6				NC					
71193	02/11/93	1,2-DICHLOROETHENE	6	U	6				NC					
71593	03/03/93	1,2-DICHLOROETHENE	6	U	6				NC					
71793	03/02/93	1,2-DICHLOROETHENE	6	U	6				NC					
71993	02/20/93	1,2-DICHLOROETHENE	6	U	6				NC					
72193	02/26/93	1,2-DICHLOROETHENE	6	U	6				NC					
72193	02/26/93	1,2-DICHLOROETHENE	6	U	6				NC	0				
70593	01/19/93	1,2-DICHLOROPROPANE	6	U	6				NC					
70593	01/22/93	1,2-DICHLOROPROPANE	6	U	6				NC					
70593	01/22/93	1,2-DICHLOROPROPANE	6	U	6				NC					
70993	02/03/93	1,2-DICHLOROPROPANE	6	U	6				NC					
71093	02/04/93	1,2-DICHLOROPROPANE	6	U	6				NC					
71193	02/11/93	1,2-DICHLOROPROPANE	6	U	6				NC					
71193	02/11/93	1,2-DICHLOROPROPANE	6	U	6				NC					
71593	03/03/93	1,2-DICHLOROPROPANE	6	U	6				NC					
71793	03/02/93	1,2-DICHLOROPROPANE	6	U	6				NC					
71993	02/20/93	1,2-DICHLOROPROPANE	6	U	6				NC					
72193	02/26/93	1,2-DICHLOROPROPANE	6	U	6				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
72193	02/26/93	1,2-DICHLOROPROPANE	6	U	6				NC	0				
70593	01/22/93	2-BUTANONE	12	U	12				NC					
70593	01/22/93	2-BUTANONE	12	U	12				NC					
70993	02/03/93	2-BUTANONE	12	U	12				NC					
71093	02/04/93	2-BUTANONE	12	U	12				NC					
71193	02/11/93	2-BUTANONE	12	U	12				NC					
71193	02/11/93	2-BUTANONE	12	U	12				NC					
71593	03/03/93	2-BUTANONE	12	U	12				NC					
71793	03/02/93	2-BUTANONE	12	U	12				NC					
72193	02/26/93	2-BUTANONE	12	U	12				NC					
72193	02/28/93	2-BUTANONE	12	U	12				NC	0				
70593	01/19/93	2-HEXANONE	12	U	12				NC					
70593	01/22/93	2-HEXANONE	12	U	12				NC					
70593	01/22/93	2-HEXANONE	12	U	12				NC					
70993	02/03/93	2-HEXANONE	12	U	12				NC					
71093	02/04/93	2-HEXANONE	12	U	12				NC					
71193	02/11/93	2-HEXANONE	12	U	12				NC					
71193	02/11/93	2-HEXANONE	12	U	12				NC					
71593	03/03/93	2-HEXANONE	12	U	12				NC					
71793	03/02/93	2-HEXANONE	12	U	12				NC					
72193	02/26/93	2-HEXANONE	12	U	12				NC	0				
72193	02/26/93	2-HEXANONE	12	U	12				NC					
70593	01/19/93	4-METHYL-2-PENTANONE	12	U	12				NC					
70593	01/22/93	4-METHYL-2-PENTANONE	12	U	12				NC					
70593	01/22/93	4-METHYL-2-PENTANONE	12	U	12				NC					
70993	02/03/93	4-METHYL-2-PENTANONE	12	U	12				NC					
71093	02/04/93	4-METHYL-2-PENTANONE	12	U	12				NC					
71193	02/11/93	4-METHYL-2-PENTANONE	12	U	12				NC					
71193	02/11/93	4-METHYL-2-PENTANONE	12	U	12				NC					
71593	03/03/93	4-METHYL-2-PENTANONE	12	U	12				NC					
71793	03/02/93	4-METHYL-2-PENTANONE	12	U	12				NC					
71993	02/20/93	4-METHYL-2-PENTANONE	12	U	12				NC					
72193	02/26/93	4-METHYL-2-PENTANONE	12	U	12				NC	0				
72193	02/26/93	4-METHYL-2-PENTANONE	12	U	12				NC					
70593	01/19/93	ACETONE	12	U	12				NC					
70593	01/22/93	ACETONE	12	U	12				NC					
70593	01/22/93	ACETONE	12	U	12				NC					
70993	02/03/93	ACETONE	17	U	12				NC					
71093	02/04/93	ACETONE	12	U	12				NC					
71193	02/11/93	ACETONE	17	U	12				NC					
71193	02/11/93	ACETONE	16	U	12				NC					
71593	03/03/93	ACETONE	12	U	12				NC					
71793	03/02/93	ACETONE	12	U	12				NC					
71993	02/20/93	ACETONE	18	U	12				NC					
72193	02/26/93	ACETONE	18	U	12				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
72193	02/26/93	ACETONE	13	U	12				NC	0				
70593	01/19/93	BENZENE	6	U	6				NC					
70593	01/22/93	BENZENE	6	U	6				NC					
70593	01/22/93	BENZENE	6	U	6				NC					
70993	02/03/93	BENZENE	6	U	6				NC					
71093	02/04/93	BENZENE	6	U	6				NC					
71193	02/11/93	BENZENE	6	U	6				NC					
71193	02/11/93	BENZENE	6	U	6				NC					
71593	03/03/93	BENZENE	6	U	6				NC					
71793	03/02/93	BENZENE	6	U	6				NC					
71993	02/20/93	BENZENE	6	U	6				NC					
72193	02/26/93	BENZENE	6	U	6				NC					
72193	02/26/93	BENZENE	6	U	6				NC	0				
70593	01/19/93	BROMODICHLOROMETHANE	6	U	6				NC					
70593	01/22/93	BROMODICHLOROMETHANE	6	U	6				NC					
70593	01/22/93	BROMODICHLOROMETHANE	6	U	6				NC					
70993	02/03/93	BROMODICHLOROMETHANE	6	U	6				NC					
71093	02/04/93	BROMODICHLOROMETHANE	6	U	6				NC					
71193	02/11/93	BROMODICHLOROMETHANE	6	U	6				NC					
71193	02/11/93	BROMODICHLOROMETHANE	6	U	6				NC					
71593	03/03/93	BROMODICHLOROMETHANE	6	U	6				NC					
71793	03/02/93	BROMODICHLOROMETHANE	6	U	6				NC					
71993	02/20/93	BROMODICHLOROMETHANE	6	U	6				NC					
72193	02/26/93	BROMODICHLOROMETHANE	6	U	6				NC					
72193	02/26/93	BROMODICHLOROMETHANE	6	U	6				NC	0				
70593	01/19/93	BROMOFORM	6	U	6				NC					
70593	01/22/93	BROMOFORM	6	U	6				NC					
70593	01/22/93	BROMOFORM	6	U	6				NC					
70993	02/03/93	BROMOFORM	6	U	6				NC					
71093	02/04/93	BROMOFORM	6	U	6				NC					
71193	02/11/93	BROMOFORM	6	U	6				NC					
71193	02/11/93	BROMOFORM	6	U	6				NC					
71593	03/03/93	BROMOFORM	6	U	6				NC					
71793	03/02/93	BROMOFORM	6	U	6				NC					
71993	02/20/93	BROMOFORM	6	U	6				NC					
72193	02/26/93	BROMOFORM	6	U	6				NC					
72193	02/26/93	BROMOFORM	6	U	6				NC	0				
70593	01/19/93	BROMOMETHANE	12	U	12				NC					
70593	01/22/93	BROMOMETHANE	12	U	12				NC					
70593	01/22/93	BROMOMETHANE	12	U	12				NC					
70993	02/03/93	BROMOMETHANE	12	U	12				NC					
71093	02/04/93	BROMOMETHANE	12	U	12				NC					
71193	02/11/93	BROMOMETHANE	12	U	12				NC					
71193	02/11/93	BROMOMETHANE	12	U	12				NC					
71593	03/03/93	BROMOMETHANE	12	U	12				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71793	03/02/93	BROMOMETHANE	12	U	12				NC					
71993	02/20/93	BROMOMETHANE	12	U	12				NC					
72193	02/26/93	BROMOMETHANE	12	U	12				NC					
72193	02/26/93	BROMOMETHANE	12	U	12				NC	0				
70593	01/19/93	CARBON DISULFIDE	6	U	6				NC					
70593	01/22/93	CARBON DISULFIDE	6	U	6				NC					
70593	01/22/93	CARBON DISULFIDE	6	U	6				NC					
70993	02/03/93	CARBON DISULFIDE	6	U	6				NC					
71093	02/04/93	CARBON DISULFIDE	6	U	6				NC					
71193	02/11/93	CARBON DISULFIDE	6	U	6				NC					
71193	02/11/93	CARBON DISULFIDE	6	U	6				NC					
71593	03/03/93	CARBON DISULFIDE	6	U	6				NC					
71793	03/02/93	CARBON DISULFIDE	6	U	6				NC					
71993	02/20/93	CARBON DISULFIDE	6	U	6				NC					
72193	02/26/93	CARBON DISULFIDE	6	U	6				NC					
72193	02/26/93	CARBON DISULFIDE	6	U	6				NC	0				
70593	01/19/93	CARBON TETRACHLORIDE	6	U	6				NC					
70593	01/22/93	CARBON TETRACHLORIDE	6	U	6				NC					
70593	01/22/93	CARBON TETRACHLORIDE	6	U	6				NC					
70993	02/03/93	CARBON TETRACHLORIDE	6	U	6				NC					
71093	02/04/93	CARBON TETRACHLORIDE	6	U	6				NC					
71193	02/11/93	CARBON TETRACHLORIDE	6	U	6				NC					
71193	02/11/93	CARBON TETRACHLORIDE	6	U	6				NC					
71593	03/03/93	CARBON TETRACHLORIDE	6	U	6				NC					
71793	03/02/93	CARBON TETRACHLORIDE	6	U	6				NC					
71993	02/20/93	CARBON TETRACHLORIDE	6	U	6				NC					
72193	02/26/93	CARBON TETRACHLORIDE	6	U	6				NC					
72193	02/26/93	CARBON TETRACHLORIDE	6	U	6				NC	0				
70593	01/19/93	CHLOROBENZENE	6	U	6				NC					
70593	01/22/93	CHLOROBENZENE	6	U	6				NC					
70593	01/22/93	CHLOROBENZENE	6	U	6				NC					
70993	02/03/93	CHLOROBENZENE	6	U	6				NC					
71093	02/04/93	CHLOROBENZENE	6	U	6				NC					
71193	02/11/93	CHLOROBENZENE	6	U	6				NC					
71193	02/11/93	CHLOROBENZENE	6	U	6				NC					
71593	03/03/93	CHLOROBENZENE	6	U	6				NC					
71793	03/02/93	CHLOROBENZENE	6	U	6				NC					
71993	02/20/93	CHLOROBENZENE	6	U	6				NC					
72193	02/26/93	CHLOROBENZENE	6	U	6				NC					
72193	02/26/93	CHLOROBENZENE	6	U	6				NC	0				
70593	01/19/93	CHLOROETHANE	12	U	12				NC					
70593	01/22/93	CHLOROETHANE	12	U	12				NC					
70593	01/22/93	CHLOROETHANE	12	U	12				NC					
70993	02/03/93	CHLOROETHANE	12	U	12				NC					
71093	02/04/93	CHLOROETHANE	12	U	12				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71193	02/11/93	CHLOROETHANE	12	U	12				NC					
71193	02/11/93	CHLOROETHANE	12	U	12				NC					
71593	03/03/93	CHLOROETHANE	12	U	12				NC					
71793	03/02/93	CHLOROETHANE	12	U	12				NC					
71993	02/20/93	CHLOROETHANE	12	U	12				NC					
72193	02/26/93	CHLOROETHANE	12	U	12				NC					
72193	02/26/93	CHLOROETHANE	12	U	12				NC	0				
70593	01/19/93	CHLOROFORM	6	U	6				NC					
70593	01/22/93	CHLOROFORM	6	U	6				NC					
70593	01/22/93	CHLOROFORM	6	U	6				NC					
70993	02/03/93	CHLOROFORM	6	U	6				NC					
71093	02/04/93	CHLOROFORM	6	U	6				NC					
71193	02/11/93	CHLOROFORM	6	U	6				NC					
71193	02/11/93	CHLOROFORM	6	U	6				NC					
71593	03/03/93	CHLOROFORM	6	U	6				NC					
71793	03/02/93	CHLOROFORM	6	U	6				NC					
71993	02/20/93	CHLOROFORM	6	U	6				NC					
72193	02/26/93	CHLOROFORM	6	U	6				NC					
72193	02/26/93	CHLOROFORM	6	U	6				NC	0				
70593	01/19/93	CHLOROMETHANE	12	U	12				NC					
70593	01/22/93	CHLOROMETHANE	12	U	12				NC					
70593	01/22/93	CHLOROMETHANE	12	U	12				NC					
70993	02/03/93	CHLOROMETHANE	12	U	12				NC					
71093	02/04/93	CHLOROMETHANE	12	U	12				NC					
71193	02/11/93	CHLOROMETHANE	12	U	12				NC					
71193	02/11/93	CHLOROMETHANE	12	U	12				NC					
71593	03/03/93	CHLOROMETHANE	12	U	12				NC					
71793	03/02/93	CHLOROMETHANE	12	U	12				NC					
71993	02/20/93	CHLOROMETHANE	12	U	12				NC					
72193	02/26/93	CHLOROMETHANE	12	U	12				NC					
72193	02/26/93	CHLOROMETHANE	12	U	12				NC	0				
70593	01/19/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
70593	01/22/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
70593	01/22/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
70993	02/03/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
71093	02/04/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
71193	02/11/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
71193	02/11/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
71593	03/03/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
71793	03/02/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
71993	02/20/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
72193	02/26/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC					
72193	02/26/93	cis-1,3-DICHLOROPROPENE	6	U	6				NC	0				
70593	01/19/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
70593	01/22/93	DIBROMOCHLOROMETHANE	6	U	6				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/22/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
70993	02/03/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
71093	02/04/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
71193	02/11/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
71193	02/11/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
71593	03/03/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
71793	03/02/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
71993	02/20/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
72193	02/26/93	DIBROMOCHLOROMETHANE	6	U	6				NC					
72193	02/26/93	DIBROMOCHLOROMETHANE	6	U	6				NC	0				
70593	01/19/93	ETHYLBENZENE	6	U	6				NC					
70593	01/22/93	ETHYLBENZENE	6	U	6				NC					
70593	01/22/93	ETHYLBENZENE	6	U	6				NC					
70993	02/03/93	ETHYLBENZENE	6	U	6				NC					
71093	02/04/93	ETHYLBENZENE	6	U	6				NC					
71193	02/11/93	ETHYLBENZENE	6	U	6				NC					
71193	02/11/93	ETHYLBENZENE	6	U	6				NC					
71593	03/03/93	ETHYLBENZENE	6	U	6				NC					
71793	03/02/93	ETHYLBENZENE	6	U	6				NC					
71993	02/20/93	ETHYLBENZENE	6	U	6				NC					
72193	02/26/93	ETHYLBENZENE	6	U	6				NC					
72193	02/26/93	ETHYLBENZENE	6	U	6				NC	0				
70593	01/19/93	METHYLENE CHLORIDE	10		6				NC					
70593	01/22/93	METHYLENE CHLORIDE	6	U	6				NC					
70593	01/22/93	METHYLENE CHLORIDE	6	U	6				NC					
70993	02/03/93	METHYLENE CHLORIDE	6	U	6				NC					
71093	02/04/93	METHYLENE CHLORIDE	6	U	6				NC					
71193	02/11/93	METHYLENE CHLORIDE	5	J	6				NC					
71193	02/11/93	METHYLENE CHLORIDE	7		6				NC					
71593	03/03/93	METHYLENE CHLORIDE	6		6				NC					
71793	03/02/93	METHYLENE CHLORIDE	6	U	6				NC					
71993	02/20/93	METHYLENE CHLORIDE	6	U	6				NC					
72193	02/26/93	METHYLENE CHLORIDE	2	J	6				NC					
72193	02/26/93	METHYLENE CHLORIDE	3	J	6				NC	0				
70593	01/19/93	STYRENE	6	U	6				NC					
70593	01/22/93	STYRENE	6	U	6				NC					
70593	01/22/93	STYRENE	6	U	6				NC					
70993	02/03/93	STYRENE	6	U	6				NC					
71093	02/04/93	STYRENE	6	U	6				NC					
71193	02/11/93	STYRENE	6	U	6				NC					
71193	02/11/93	STYRENE	6	U	6				NC					
71593	03/03/93	STYRENE	6	U	6				NC					
71793	03/02/93	STYRENE	6	U	6				NC					
71993	02/20/93	STYRENE	6	U	6				NC					
72193	02/26/93	STYRENE	6	U	6				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
72193	02/26/93	STYRENE	6	U	6				NC	0				
70593	01/19/93	TETRACHLOROETHENE	6	U	6				NC					
70593	01/22/93	TETRACHLOROETHENE	6	U	6				NC					
70593	01/22/93	TETRACHLOROETHENE	6	U	6				NC					
70993	02/03/93	TETRACHLOROETHENE	6	U	6				NC					
71093	02/04/93	TETRACHLOROETHENE	6	U	6				NC					
71193	02/11/93	TETRACHLOROETHENE	6	U	6				NC					
71193	02/11/93	TETRACHLOROETHENE	6	U	6				NC					
71593	03/03/93	TETRACHLOROETHENE	6	U	6				NC					
71793	03/02/93	TETRACHLOROETHENE	6	U	6				NC					
71993	02/20/93	TETRACHLOROETHENE	6	U	6				NC					
72193	02/26/93	TETRACHLOROETHENE	6	U	6				NC					
72193	02/26/93	TETRACHLOROETHENE	6	U	6				NC	0				
70593	01/19/93	TOLUENE	83		12				NC					
70593	01/22/93	TOLUENE	240		6				NC					
70593	01/22/93	TOLUENE	190		12				NC					
70993	02/03/93	TOLUENE	280		12				NC					
71093	02/04/93	TOLUENE	120		29				NC					
71193	02/11/93	TOLUENE	240		12				NC					
71193	02/11/93	TOLUENE	200		12				NC					
71393	02/23/93	TOLUENE	210		30				NC					
71593	03/03/93	TOLUENE	360		29				NC					
71793	03/02/93	TOLUENE	230		6				NC					
71993	02/20/93	TOLUENE	1500		62				NC					
72193	02/26/93	TOLUENE	150		6				NC					
72193	02/26/93	TOLUENE	260		30				NC	0				
70593	01/19/93	TOTAL XYLEMES	6	U	6				NC					
70593	01/22/93	TOTAL XYLEMES	6	U	6				NC					
70593	01/22/93	TOTAL XYLEMES	6	U	6				NC					
70993	02/03/93	TOTAL XYLEMES	6	U	6				NC					
71093	02/04/93	TOTAL XYLEMES	6	U	6				NC					
71193	02/11/93	TOTAL XYLEMES	6	U	6				NC					
71193	02/11/93	TOTAL XYLEMES	6	U	6				NC					
71593	03/03/93	TOTAL XYLEMES	6	U	6				NC					
71793	03/02/93	TOTAL XYLEMES	6	U	6				NC					
71993	02/20/93	TOTAL XYLEMES	6	U	6				NC					
72193	02/26/93	TOTAL XYLEMES	6	U	6				NC					
72193	02/26/93	TOTAL XYLEMES	6	U	6				NC	0				
70593	01/19/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
70593	01/22/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
70593	01/22/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
70993	02/03/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
71093	02/04/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
71193	02/11/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
71193	02/11/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71593	03/03/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
71793	03/02/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
71993	02/20/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
72193	02/26/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC					
72193	02/26/93	trans-1,3-DICHLOROPROPENE	6	U	6				NC	0				
70593	01/19/93	TRICHLOROETHENE	6	U	6				NC					
70593	01/22/93	TRICHLOROETHENE	6	U	6				NC					
70593	01/22/93	TRICHLOROETHENE	6	U	6				NC					
70993	02/03/93	TRICHLOROETHENE	6	U	6				NC					
71093	02/04/93	TRICHLOROETHENE	6	U	6				NC					
71193	02/11/93	TRICHLOROETHENE	6	U	6				NC					
71193	02/11/93	TRICHLOROETHENE	6	U	6				NC					
71593	03/03/93	TRICHLOROETHENE	6	U	6				NC					
71793	03/02/93	TRICHLOROETHENE	6	U	6				NC					
71993	02/20/93	TRICHLOROETHENE	6	U	6				NC					
72193	02/26/93	TRICHLOROETHENE	6	U	6				NC	0				
72193	02/26/93	TRICHLOROETHENE	6	U	6				NC					
70593	01/19/93	VINYL ACETATE	12	U	12				NC					
70593	01/22/93	VINYL ACETATE	12	U	12				NC					
70593	01/22/93	VINYL ACETATE	12	U	12				NC					
70993	02/03/93	VINYL ACETATE	12	U	12				NC					
71093	02/04/93	VINYL ACETATE	12	U	12				NC					
71193	02/11/93	VINYL ACETATE	12	U	12				NC					
71193	02/11/93	VINYL ACETATE	12	U	12				NC					
71593	03/03/93	VINYL ACETATE	12	U	12				NC					
71793	03/02/93	VINYL ACETATE	12	U	12				NC					
71993	02/20/93	VINYL ACETATE	12	U	12				NC					
72193	02/26/93	VINYL ACETATE	12	U	12				NC	0				
72193	02/26/93	VINYL ACETATE	12	U	12				NC					
70593	01/19/93	VINYL CHLORIDE	12	U	12				NC					
70593	01/22/93	VINYL CHLORIDE	12	U	12				NC					
70593	01/22/93	VINYL CHLORIDE	12	U	12				NC					
70993	02/03/93	VINYL CHLORIDE	12	U	12				NC					
71093	02/04/93	VINYL CHLORIDE	12	U	12				NC					
71193	02/11/93	VINYL CHLORIDE	12	U	12				NC					
71193	02/11/93	VINYL CHLORIDE	12	U	12				NC					
71593	03/03/93	VINYL CHLORIDE	12	U	12				NC					
71793	03/02/93	VINYL CHLORIDE	12	U	12				NC					
71993	02/20/93	VINYL CHLORIDE	12	U	12				NC					
72193	02/26/93	VINYL CHLORIDE	12	U	12				NC					
72193	02/26/93	VINYL CHLORIDE	12	U	12				NC	0				
70593	01/19/93	1,2,4-TRICHLOROBENZENE	410	U	410	390	U	390	0.00					
70593	01/22/93	1,2,4-TRICHLOROBENZENE	400	U	400	400	U	400	0.00					
70593	01/22/93	1,2,4-TRICHLOROBENZENE	400	U	400	410	U	410	0.00					
70993	02/03/93	1,2,4-TRICHLOROBENZENE	390	U	390	390	U	390	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71093	02/04/93	1,2,4-TRICHLOROBENZENE	380	U	380	380	U	380	0.00					
71193	02/11/93	1,2,4-TRICHLOROBENZENE	380	U	380	370	U	370	0.00					
71193	02/11/93	1,2,4-TRICHLOROBENZENE	380	U	380	380	U	380	0.00					
71393	02/23/93	1,2,4-TRICHLOROBENZENE	400	U	400	380	U	380	0.00					
71393	02/23/93	1,2,4-TRICHLOROBENZENE	390	U	390	390	U	390	0.00					
71593	03/03/93	1,2,4-TRICHLOROBENZENE	390	U	390	390	U	390	0.00					
71793	03/02/93	1,2,4-TRICHLOROBENZENE	380	U	380	380	U	380	0.00					
71993	02/20/93	1,2,4-TRICHLOROBENZENE	420	U	420	400	U	400	0.00					
72193	02/26/93	1,2,4-TRICHLOROBENZENE	400	U	400	400	U	400	0.00					
72193	02/26/93	1,2,4-TRICHLOROBENZENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	1,2-DICHLOROBENZENE	410	U	410	390	U	390	0.00					
70593	01/22/93	1,2-DICHLOROBENZENE	400	U	400	400	U	400	0.00					
70593	01/22/93	1,2-DICHLOROBENZENE	400	U	400	410	U	410	0.00					
70993	02/03/93	1,2-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71093	02/04/93	1,2-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71193	02/11/93	1,2-DICHLOROBENZENE	380	U	380	370	U	370	0.00					
71193	02/11/93	1,2-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71393	02/23/93	1,2-DICHLOROBENZENE	400	U	400	380	U	380	0.00					
71393	02/23/93	1,2-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71593	03/03/93	1,2-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71793	03/02/93	1,2-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71993	02/20/93	1,2-DICHLOROBENZENE	420	U	420	400	U	400	0.00					
72193	02/26/93	1,2-DICHLOROBENZENE	400	U	400	400	U	400	0.00					
72193	02/26/93	1,2-DICHLOROBENZENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	1,3-DICHLOROBENZENE	410	U	410	390	U	390	0.00					
70593	01/22/93	1,3-DICHLOROBENZENE	400	U	400	400	U	400	0.00					
70593	01/22/93	1,3-DICHLOROBENZENE	400	U	400	410	U	410	0.00					
70993	02/03/93	1,3-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71093	02/04/93	1,3-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71193	02/11/93	1,3-DICHLOROBENZENE	380	U	380	370	U	370	0.00					
71193	02/11/93	1,3-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71393	02/23/93	1,3-DICHLOROBENZENE	400	U	400	380	U	380	0.00					
71393	02/23/93	1,3-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71593	03/03/93	1,3-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71793	03/02/93	1,3-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71993	02/20/93	1,3-DICHLOROBENZENE	420	U	420	400	U	400	0.00					
72193	02/26/93	1,3-DICHLOROBENZENE	400	U	400	400	U	400	0.00					
72193	02/26/93	1,3-DICHLOROBENZENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	1,4-DICHLOROBENZENE	410	U	410	390	U	390	0.00					
70593	01/22/93	1,4-DICHLOROBENZENE	400	U	400	400	U	400	0.00					
70593	01/22/93	1,4-DICHLOROBENZENE	400	U	400	410	U	410	0.00					
70993	02/03/93	1,4-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71093	02/04/93	1,4-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71193	02/11/93	1,4-DICHLOROBENZENE	380	U	380	370	U	370	0.00					
71193	02/11/93	1,4-DICHLOROBENZENE	380	U	380	380	U	380	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71393	02/23/93	1,4-DICHLOROBENZENE	400	U	400	380	U	380	0.00					
71393	02/23/93	1,4-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71593	03/03/93	1,4-DICHLOROBENZENE	390	U	390	390	U	390	0.00					
71793	03/02/93	1,4-DICHLOROBENZENE	380	U	380	380	U	380	0.00					
71993	02/20/93	1,4-DICHLOROBENZENE	420	U	420	400	U	400	0.00					
72193	02/26/93	1,4-DICHLOROBENZENE	400	U	400	400	U	400	0.00					
72193	02/26/93	1,4-DICHLOROBENZENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	2,4,5-TRICHLOROPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	2,4,5-TRICHLOROPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	2,4,5-TRICHLOROPHENOL	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	2,4,5-TRICHLOROPHENOL	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	2,4,5-TRICHLOROPHENOL	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	2,4,5-TRICHLOROPHENOL	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	2,4,5-TRICHLOROPHENOL	2000	U	2000	2000	U	2000	0.00	14	0			
70593	01/19/93	2,4,6-TRICHLOROPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	2,4,6-TRICHLOROPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	2,4,6-TRICHLOROPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	2,4,6-TRICHLOROPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	2,4,6-TRICHLOROPHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	2,4,6-TRICHLOROPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	2,4,6-TRICHLOROPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	2,4,6-TRICHLOROPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	2,4,6-TRICHLOROPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	2,4,6-TRICHLOROPHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	2,4,6-TRICHLOROPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	2,4,6-TRICHLOROPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	2,4,6-TRICHLOROPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	2,4,6-TRICHLOROPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2,4-DICHLOROPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	2,4-DICHLOROPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	2,4-DICHLOROPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	2,4-DICHLOROPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	2,4-DICHLOROPHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	2,4-DICHLOROPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	2,4-DICHLOROPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	2,4-DICHLOROPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	2,4-DICHLOROPHENOL	390	U	390	380	U	380	0.00					
71393	02/23/93	2,4-DICHLOROPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	2,4-DICHLOROPHENOL	390	U	390	390	U	390	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71793	03/02/93	2,4-DICHLOROPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	2,4-DICHLOROPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	2,4-DICHLOROPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	2,4-DICHLOROPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2,4-DIMETHYLPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	2,4-DIMETHYLPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	2,4-DIMETHYLPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	2,4-DIMETHYLPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	2,4-DIMETHYLPHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	2,4-DIMETHYLPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	2,4-DIMETHYLPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	2,4-DIMETHYLPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	2,4-DIMETHYLPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	2,4-DIMETHYLPHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	2,4-DIMETHYLPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	2,4-DIMETHYLPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	2,4-DIMETHYLPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	2,4-DIMETHYLPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2,4-DINITROPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	2,4-DINITROPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	2,4-DINITROPHENOL	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	2,4-DINITROPHENOL	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	2,4-DINITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	2,4-DINITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	2,4-DINITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	2,4-DINITROPHENOL	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	2,4-DINITROPHENOL	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	2,4-DINITROPHENOL	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	2,4-DINITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	2,4-DINITROPHENOL	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	2,4-DINITROPHENOL	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	2,4-DINITROPHENOL	2000	U	2000	2000	U	2000	0.00	14	0			
70593	01/19/93	2,4-DINITROTOLUENE	410	U	410	390	U	390	0.00					
70593	01/22/93	2,4-DINITROTOLUENE	400	U	400	400	U	400	0.00					
70593	01/22/93	2,4-DINITROTOLUENE	400	U	400	410	U	410	0.00					
70993	02/03/93	2,4-DINITROTOLUENE	390	U	390	390	U	390	0.00					
71093	02/04/93	2,4-DINITROTOLUENE	380	U	380	380	U	380	0.00					
71193	02/11/93	2,4-DINITROTOLUENE	380	U	380	370	U	370	0.00					
71193	02/11/93	2,4-DINITROTOLUENE	380	U	380	380	U	380	0.00					
71393	02/23/93	2,4-DINITROTOLUENE	400	U	400	380	U	380	0.00					
71393	02/23/93	2,4-DINITROTOLUENE	390	U	390	390	U	390	0.00					
71593	03/03/93	2,4-DINITROTOLUENE	390	U	390	390	U	390	0.00					
71793	03/02/93	2,4-DINITROTOLUENE	380	U	380	380	U	380	0.00					
71993	02/20/93	2,4-DINITROTOLUENE	420	U	420	400	U	400	0.00					
71993	02/26/93	2,4-DINITROTOLUENE	400	U	400	400	U	400	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
72193	02/26/93	2,4-DINITROTOLUENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2,6-DINITROTOLUENE	410	U	410	390	U	390	0.00					
70593	01/22/93	2,6-DINITROTOLUENE	400	U	400	400	U	400	0.00					
70593	01/22/93	2,6-DINITROTOLUENE	400	U	400	410	U	410	0.00					
70993	02/03/93	2,6-DINITROTOLUENE	390	U	390	390	U	390	0.00					
71093	02/04/93	2,6-DINITROTOLUENE	380	U	380	380	U	380	0.00					
71193	02/11/93	2,6-DINITROTOLUENE	380	U	380	370	U	370	0.00					
71193	02/11/93	2,6-DINITROTOLUENE	380	U	380	380	U	380	0.00					
71393	02/23/93	2,6-DINITROTOLUENE	400	U	400	380	U	380	0.00					
71393	02/23/93	2,6-DINITROTOLUENE	390	U	390	390	U	390	0.00					
71593	03/03/93	2,6-DINITROTOLUENE	390	U	390	390	U	390	0.00					
71793	03/02/93	2,6-DINITROTOLUENE	380	U	380	380	U	380	0.00					
71993	02/20/93	2,6-DINITROTOLUENE	420	U	420	400	U	400	0.00					
72193	02/26/93	2,6-DINITROTOLUENE	400	U	400	400	U	400	0.00					
72193	02/26/93	2,6-DINITROTOLUENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2-CHLORONAPHTHALENE	410	U	410	390	U	390	0.00					
70593	01/22/93	2-CHLORONAPHTHALENE	400	U	400	400	U	400	0.00					
70593	01/22/93	2-CHLORONAPHTHALENE	400	U	400	410	U	410	0.00					
70993	02/03/93	2-CHLORONAPHTHALENE	390	U	390	390	U	390	0.00					
71093	02/04/93	2-CHLORONAPHTHALENE	380	U	380	380	U	380	0.00					
71193	02/11/93	2-CHLORONAPHTHALENE	380	U	380	370	U	370	0.00					
71193	02/11/93	2-CHLORONAPHTHALENE	380	U	380	380	U	380	0.00					
71393	02/23/93	2-CHLORONAPHTHALENE	400	U	400	380	U	380	0.00					
71393	02/23/93	2-CHLORONAPHTHALENE	390	U	390	390	U	390	0.00					
71593	03/03/93	2-CHLORONAPHTHALENE	390	U	390	390	U	390	0.00					
71793	03/02/93	2-CHLORONAPHTHALENE	380	U	380	380	U	380	0.00					
71993	02/20/93	2-CHLORONAPHTHALENE	420	U	420	400	U	400	0.00					
72193	02/26/93	2-CHLORONAPHTHALENE	400	U	400	400	U	400	0.00					
72193	02/26/93	2-CHLORONAPHTHALENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2-CHLOROPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	2-CHLOROPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	2-CHLOROPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	2-CHLOROPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	2-CHLOROPHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	2-CHLOROPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	2-CHLOROPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	2-CHLOROPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	2-CHLOROPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	2-CHLOROPHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	2-CHLOROPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	2-CHLOROPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	2-CHLOROPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	2-CHLOROPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2-METHYLNAPHTHALENE	410	U	410	390	U	390	0.00					
70593	01/22/93	2-METHYLNAPHTHALENE	400	U	400	400	U	400	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/22/93	2-METHYLNAPHTHALENE	400	U	400	410	U	410	0.00					
70993	02/03/93	2-METHYLNAPHTHALENE	390	U	390	390	U	390	0.00					
71093	02/04/93	2-METHYLNAPHTHALENE	380	U	380	380	U	380	0.00					
71193	02/11/93	2-METHYLNAPHTHALENE	380	U	380	370	U	370	0.00					
71193	02/11/93	2-METHYLNAPHTHALENE	380	U	380	380	U	380	0.00					
71393	02/23/93	2-METHYLNAPHTHALENE	400	U	400	380	U	380	0.00					
71393	02/23/93	2-METHYLNAPHTHALENE	390	U	390	390	U	390	0.00					
71593	03/03/93	2-METHYLNAPHTHALENE	390	U	390	390	U	390	0.00					
71793	03/02/93	2-METHYLNAPHTHALENE	380	U	380	380	U	380	0.00					
71993	02/20/93	2-METHYLNAPHTHALENE	420	U	420	400	U	400	0.00					
72193	02/26/93	2-METHYLNAPHTHALENE	400	U	400	400	U	400	0.00					
72193	02/26/93	2-METHYLNAPHTHALENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2-METHYLPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	2-METHYLPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	2-METHYLPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	2-METHYLPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	2-METHYLPHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	2-METHYLPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	2-METHYLPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	2-METHYLPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	2-METHYLPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	2-METHYLPHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	2-METHYLPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	2-METHYLPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	2-METHYLPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	2-METHYLPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	2-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	2-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	2-NITROANILINE	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	2-NITROANILINE	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	2-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	2-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	2-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	2-NITROANILINE	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	2-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	2-NITROANILINE	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	2-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	2-NITROANILINE	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	2-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	2-NITROANILINE	2000	U	2000	2000	U	2000	0.00	14	0			
70593	01/19/93	2-NITROPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	2-NITROPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	2-NITROPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	2-NITROPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	2-NITROPHENOL	380	U	380	380	U	380	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71193	02/11/93	2-NITROPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	2-NITROPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	2-NITROPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	2-NITROPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	2-NITROPHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	2-NITROPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	2-NITROPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	2-NITROPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	2-NITROPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	3,3'-DICHLOROBENZIDINE	820	U	820	780	U	780	0.00					
70593	01/22/93	3,3'-DICHLOROBENZIDINE	790	U	790	800	U	800	0.00					
70593	01/22/93	3,3'-DICHLOROBENZIDINE	790	U	790	830	U	830	0.00					
70993	02/03/93	3,3'-DICHLOROBENZIDINE	780	U	780	780	U	780	0.00					
71093	02/04/93	3,3'-DICHLOROBENZIDINE	770	U	770	770	U	770	0.00					
71193	02/11/93	3,3'-DICHLOROBENZIDINE	760	U	760	750	U	750	0.00					
71193	02/11/93	3,3'-DICHLOROBENZIDINE	760	U	760	750	U	750	0.00					
71393	02/23/93	3,3'-DICHLOROBENZIDINE	790	U	790	770	U	770	0.00					
71393	02/23/93	3,3'-DICHLOROBENZIDINE	790	U	790	780	U	780	0.00					
71593	03/03/93	3,3'-DICHLOROBENZIDINE	770	U	770	780	U	780	0.00					
71793	03/02/93	3,3'-DICHLOROBENZIDINE	770	U	770	750	U	750	0.00					
71993	02/20/93	3,3'-DICHLOROBENZIDINE	840	U	840	800	U	800	0.00					
72193	02/26/93	3,3'-DICHLOROBENZIDINE	810	U	810	800	U	800	0.00					
72193	02/26/93	3,3'-DICHLOROBENZIDINE	800	U	800	790	U	790	0.00	14	0			
70593	01/19/93	3-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	3-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	3-NITROANILINE	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	3-NITROANILINE	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	3-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	3-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	3-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	3-NITROANILINE	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	3-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	3-NITROANILINE	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	3-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	3-NITROANILINE	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	3-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	3-NITROANILINE	2000	U	2000	2000	U	2000	0.00	14	0			
70593	01/19/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	4,6-DINITRO-2-METHYLPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	4,6-DINITRO-2-METHYLPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	4,6-DINITRO-2-METHYLPHENOL	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	1900	U	1900	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71393	02/23/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	4,6-DINITRO-2-METHYLPHENOL	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	4,6-DINITRO-2-METHYLPHENOL	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	4,6-DINITRO-2-METHYLPHENOL	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	4,6-DINITRO-2-METHYLPHENOL	2000	U	2000	2000	U	2000	0.00	14	0			
70593	01/19/93	4-BROMOPHENYL PHENYL ETHER	410	U	410	390	U	390	0.00					
70593	01/22/93	4-BROMOPHENYL PHENYL ETHER	400	U	400	400	U	400	0.00					
70593	01/22/93	4-BROMOPHENYL PHENYL ETHER	400	U	400	410	U	410	0.00					
70993	02/03/93	4-BROMOPHENYL PHENYL ETHER	390	U	390	390	U	390	0.00					
71093	02/04/93	4-BROMOPHENYL PHENYL ETHER	380	U	380	380	U	380	0.00					
71193	02/11/93	4-BROMOPHENYL PHENYL ETHER	380	U	380	370	U	370	0.00					
71193	02/11/93	4-BROMOPHENYL PHENYL ETHER	380	U	380	380	U	380	0.00					
71393	02/23/93	4-BROMOPHENYL PHENYL ETHER	400	U	400	380	U	380	0.00					
71393	02/23/93	4-BROMOPHENYL PHENYL ETHER	390	U	390	390	U	390	0.00					
71593	03/03/93	4-BROMOPHENYL PHENYL ETHER	390	U	390	390	U	390	0.00					
71793	03/02/93	4-BROMOPHENYL PHENYL ETHER	380	U	380	380	U	380	0.00					
71993	02/20/93	4-BROMOPHENYL PHENYL ETHER	420	U	420	400	U	400	0.00					
72193	02/26/93	4-BROMOPHENYL PHENYL ETHER	400	U	400	400	U	400	0.00					
72193	02/26/93	4-BROMOPHENYL PHENYL ETHER	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	4-CHLORO-3-METHYLPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	4-CHLORO-3-METHYLPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	4-CHLORO-3-METHYLPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	4-CHLORO-3-METHYLPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	4-CHLORO-3-METHYLPHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	4-CHLORO-3-METHYLPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	4-CHLORO-3-METHYLPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	4-CHLORO-3-METHYLPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	4-CHLORO-3-METHYLPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	4-CHLORO-3-METHYLPHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	4-CHLORO-3-METHYLPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	4-CHLORO-3-METHYLPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	4-CHLORO-3-METHYLPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	4-CHLORO-3-METHYLPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	4-CHLOROANILINE	410	U	410	390	U	390	0.00					
70593	01/22/93	4-CHLOROANILINE	400	U	400	400	U	400	0.00					
70593	01/22/93	4-CHLOROANILINE	400	U	400	410	U	410	0.00					
70993	02/03/93	4-CHLOROANILINE	390	U	390	390	U	390	0.00					
71093	02/04/93	4-CHLOROANILINE	380	U	380	380	U	380	0.00					
71193	02/11/93	4-CHLOROANILINE	380	U	380	370	U	370	0.00					
71193	02/11/93	4-CHLOROANILINE	380	U	380	380	U	380	0.00					
71393	02/23/93	4-CHLOROANILINE	400	U	400	380	U	380	0.00					
71393	02/23/93	4-CHLOROANILINE	390	U	390	390	U	390	0.00					
71593	03/03/93	4-CHLOROANILINE	390	U	390	390	U	390	0.00					
71793	03/02/93	4-CHLOROANILINE	380	U	380	380	U	380	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71993	02/20/93	4-CHLOROANILINE	420	U	420	400	U	400	0.00					
72193	02/26/93	4-CHLOROANILINE	400	U	400	400	U	400	0.00					
72193	02/26/93	4-CHLOROANILINE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	4-CHLOROPHENYL PHENYL ETHER	410	U	410	390	U	390	0.00					
70593	01/22/93	4-CHLOROPHENYL PHENYL ETHER	400	U	400	400	U	400	0.00					
70593	01/22/93	4-CHLOROPHENYL PHENYL ETHER	400	U	400	410	U	410	0.00					
70993	02/03/93	4-CHLOROPHENYL PHENYL ETHER	390	U	390	390	U	390	0.00					
71093	02/04/93	4-CHLOROPHENYL PHENYL ETHER	380	U	380	380	U	380	0.00					
71193	02/11/93	4-CHLOROPHENYL PHENYL ETHER	380	U	380	370	U	370	0.00					
71193	02/11/93	4-CHLOROPHENYL PHENYL ETHER	380	U	380	380	U	380	0.00					
71393	02/23/93	4-CHLOROPHENYL PHENYL ETHER	400	U	400	380	U	380	0.00					
71393	02/23/93	4-CHLOROPHENYL PHENYL ETHER	390	U	390	390	U	390	0.00					
71593	03/03/93	4-CHLOROPHENYL PHENYL ETHER	390	U	390	390	U	390	0.00					
71793	03/02/93	4-CHLOROPHENYL PHENYL ETHER	380	U	380	380	U	380	0.00					
71993	02/20/93	4-CHLOROPHENYL PHENYL ETHER	420	U	420	400	U	400	0.00					
72193	02/26/93	4-CHLOROPHENYL PHENYL ETHER	400	U	400	400	U	400	0.00					
72193	02/26/93	4-CHLOROPHENYL PHENYL ETHER	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	4-METHYLPHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	4-METHYLPHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	4-METHYLPHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	4-METHYLPHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	4-METHYLPHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	4-METHYLPHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	4-METHYLPHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	4-METHYLPHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	4-METHYLPHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	4-METHYLPHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	4-METHYLPHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	4-METHYLPHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	4-METHYLPHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	4-METHYLPHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	4-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	4-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	4-NITROANILINE	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	4-NITROANILINE	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	4-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	4-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	4-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	4-NITROANILINE	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	4-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	4-NITROANILINE	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	4-NITROANILINE	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	4-NITROANILINE	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	4-NITROANILINE	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	4-NITROANILINE	2000	U	2000	2000	U	2000	0.00	14	0			

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/19/93	4-NITROPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	4-NITROPHENOL	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	4-NITROPHENOL	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	4-NITROPHENOL	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	4-NITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	4-NITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	4-NITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	4-NITROPHENOL	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	4-NITROPHENOL	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	4-NITROPHENOL	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	4-NITROPHENOL	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	4-NITROPHENOL	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	4-NITROPHENOL	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	4-NITROPHENOL	2000	U	2000	2000	U	2000	0.00	14	0			
70593	01/19/93	ACENAPHTHENE	410	U	410	390	U	390	0.00					
70593	01/22/93	ACENAPHTHENE	400	U	400	400	U	400	0.00					
70593	01/22/93	ACENAPHTHENE	400	U	400	410	U	410	0.00					
70993	02/03/93	ACENAPHTHENE	390	U	390	390	U	390	0.00					
71093	02/04/93	ACENAPHTHENE	380	U	380	380	U	380	0.00					
71193	02/11/93	ACENAPHTHENE	380	U	380	370	U	370	0.00					
71193	02/11/93	ACENAPHTHENE	380	U	380	380	U	380	0.00					
71393	02/23/93	ACENAPHTHENE	400	U	400	380	U	380	0.00					
71393	02/23/93	ACENAPHTHENE	390	U	390	390	U	390	0.00					
71593	03/03/93	ACENAPHTHENE	390	U	390	390	U	390	0.00					
71793	03/02/93	ACENAPHTHENE	380	U	380	380	U	380	0.00					
71993	02/20/93	ACENAPHTHENE	420	U	420	400	U	400	0.00					
72193	02/26/93	ACENAPHTHENE	400	U	400	400	U	400	0.00					
72193	02/26/93	ACENAPHTHENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	ACENAPHTHYLENE	410	U	410	390	U	390	0.00					
70593	01/22/93	ACENAPHTHYLENE	400	U	400	400	U	400	0.00					
70593	01/22/93	ACENAPHTHYLENE	400	U	400	410	U	410	0.00					
70993	02/03/93	ACENAPHTHYLENE	390	U	390	390	U	390	0.00					
71093	02/04/93	ACENAPHTHYLENE	380	U	380	380	U	380	0.00					
71193	02/11/93	ACENAPHTHYLENE	380	U	380	370	U	370	0.00					
71193	02/11/93	ACENAPHTHYLENE	380	U	380	380	U	380	0.00					
71393	02/23/93	ACENAPHTHYLENE	380	U	380	380	U	380	0.00					
71393	02/23/93	ACENAPHTHYLENE	400	U	400	380	U	380	0.00					
71593	03/03/93	ACENAPHTHYLENE	390	U	390	390	U	390	0.00					
71793	03/02/93	ACENAPHTHYLENE	380	U	380	380	U	380	0.00					
71993	02/20/93	ACENAPHTHYLENE	420	U	420	400	U	400	0.00					
72193	02/26/93	ACENAPHTHYLENE	400	U	400	400	U	400	0.00					
72193	02/26/93	ACENAPHTHYLENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	ANTHRACENE	410	U	410	390	U	390	0.00					
70593	01/22/93	ANTHRACENE	400	U	400	400	U	400	0.00					
70593	01/22/93	ANTHRACENE	400	U	400	410	U	410	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70993	02/03/93	ANTHRACENE	390	U	390	390	U	390	0.00					
71093	02/04/93	ANTHRACENE	380	U	380	380	U	380	0.00					
71193	02/11/93	ANTHRACENE	380	U	380	370	U	370	0.00					
71193	02/11/93	ANTHRACENE	380	U	380	380	U	380	0.00					
71393	02/23/93	ANTHRACENE	400	U	400	380	U	380	0.00					
71393	02/23/93	ANTHRACENE	390	U	390	390	U	390	0.00					
71593	03/03/93	ANTHRACENE	390	U	390	390	U	390	0.00					
71793	03/02/93	ANTHRACENE	380	U	380	380	U	380	0.00					
71993	02/20/93	ANTHRACENE	420	U	420	400	U	400	0.00					
72193	02/26/93	ANTHRACENE	400	U	400	400	U	400	0.00					
72193	02/26/93	ANTHRACENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BENZO(a)ANTHRACENE	410	U	410	390	U	390	0.00					
70593	01/22/93	BENZO(a)ANTHRACENE	400	U	400	400	U	400	0.00					
70593	01/22/93	BENZO(a)ANTHRACENE	400	U	400	410	U	410	0.00					
70993	02/03/93	BENZO(a)ANTHRACENE	390	U	390	390	U	390	0.00					
71093	02/04/93	BENZO(a)ANTHRACENE	380	U	380	380	U	380	0.00					
71193	02/11/93	BENZO(a)ANTHRACENE	380	U	380	370	U	370	0.00					
71193	02/11/93	BENZO(a)ANTHRACENE	380	U	380	380	U	380	0.00					
71393	02/23/93	BENZO(a)ANTHRACENE	400	U	400	380	U	380	0.00					
71393	02/23/93	BENZO(a)ANTHRACENE	390	U	390	390	U	390	0.00					
71593	03/03/93	BENZO(a)ANTHRACENE	390	U	390	390	U	390	0.00					
71793	03/02/93	BENZO(a)ANTHRACENE	380	U	380	380	U	380	0.00					
71993	02/20/93	BENZO(a)ANTHRACENE	420	U	420	400	U	400	0.00					
72193	02/26/93	BENZO(a)ANTHRACENE	400	U	400	400	U	400	0.00					
72193	02/26/93	BENZO(a)ANTHRACENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BENZO(a)PYRENE	410	U	410	390	U	390	0.00					
70593	01/22/93	BENZO(a)PYRENE	400	U	400	400	U	400	0.00					
70593	01/22/93	BENZO(a)PYRENE	400	U	400	410	U	410	0.00					
70993	02/03/93	BENZO(a)PYRENE	390	U	390	390	U	390	0.00					
71093	02/04/93	BENZO(a)PYRENE	380	U	380	380	U	380	0.00					
71193	02/11/93	BENZO(a)PYRENE	380	U	380	370	U	370	0.00					
71193	02/11/93	BENZO(a)PYRENE	380	U	380	380	U	380	0.00					
71393	02/23/93	BENZO(a)PYRENE	400	U	400	380	U	380	0.00					
71393	02/23/93	BENZO(a)PYRENE	390	U	390	390	U	390	0.00					
71593	03/03/93	BENZO(a)PYRENE	390	U	390	390	U	390	0.00					
71793	03/02/93	BENZO(a)PYRENE	380	U	380	380	U	380	0.00					
71993	02/20/93	BENZO(a)PYRENE	420	U	420	400	U	400	0.00					
72193	02/26/93	BENZO(a)PYRENE	400	U	400	400	U	400	0.00					
72193	02/26/93	BENZO(a)PYRENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BENZO(b)FLUORANTHENE	410	U	410	390	U	390	0.00					
70593	01/22/93	BENZO(b)FLUORANTHENE	400	U	400	400	U	400	0.00					
70593	01/22/93	BENZO(b)FLUORANTHENE	400	U	400	410	U	410	0.00					
70993	02/03/93	BENZO(b)FLUORANTHENE	390	U	390	390	U	390	0.00					
71093	02/04/93	BENZO(b)FLUORANTHENE	380	U	380	380	U	380	0.00					
71193	02/11/93	BENZO(b)FLUORANTHENE	380	U	380	370	U	370	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71193	02/11/93	BENZO(b)FLUORANTHENE	380	U	380	380	U	380	0.00					
71393	02/23/93	BENZO(b)FLUORANTHENE	400	U	400	380	U	380	0.00					
71393	02/23/93	BENZO(b)FLUORANTHENE	390	U	390	390	U	390	0.00					
71693	03/03/93	BENZO(b)FLUORANTHENE	390	U	390	390	U	390	0.00					
71793	03/02/93	BENZO(b)FLUORANTHENE	380	U	380	380	U	380	0.00					
71993	02/20/93	BENZO(b)FLUORANTHENE	84	J	420	76	J	400	10.00					
72193	02/26/93	BENZO(b)FLUORANTHENE	400	U	400	400	U	400	0.00					
72193	02/26/93	BENZO(b)FLUORANTHENE	400	U	400	390	U	390	0.00	14	0	0.71	2.67	374.17
70593	01/19/93	BENZO(ghi)PERYLENE	410	U	410	390	U	390	0.00					
70593	01/22/93	BENZO(ghi)PERYLENE	400	U	400	400	U	400	0.00					
70593	01/22/93	BENZO(ghi)PERYLENE	400	U	400	410	U	410	0.00					
70993	02/03/93	BENZO(ghi)PERYLENE	390	U	390	390	U	390	0.00					
71093	02/04/93	BENZO(ghi)PERYLENE	380	U	380	380	U	380	0.00					
71193	02/11/93	BENZO(ghi)PERYLENE	380	U	380	370	U	370	0.00					
71193	02/11/93	BENZO(ghi)PERYLENE	380	U	380	380	U	380	0.00					
71393	02/23/93	BENZO(ghi)PERYLENE	400	U	400	380	U	380	0.00					
71393	02/23/93	BENZO(ghi)PERYLENE	390	U	390	390	U	390	0.00					
71693	03/03/93	BENZO(ghi)PERYLENE	390	U	390	390	U	390	0.00					
71793	03/02/93	BENZO(ghi)PERYLENE	380	U	380	380	U	380	0.00					
71993	02/20/93	BENZO(ghi)PERYLENE	420	U	420	400	U	400	0.00					
72193	02/26/93	BENZO(ghi)PERYLENE	400	U	400	400	U	400	0.00					
72193	02/26/93	BENZO(ghi)PERYLENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BENZO(k)FLUORANTHENE	410	U	410	390	U	390	0.00					
70593	01/22/93	BENZO(k)FLUORANTHENE	400	U	400	400	U	400	0.00					
70593	01/22/93	BENZO(k)FLUORANTHENE	400	U	400	410	U	410	0.00					
70993	02/03/93	BENZO(k)FLUORANTHENE	390	U	390	390	U	390	0.00					
71093	02/04/93	BENZO(k)FLUORANTHENE	380	U	380	380	U	380	0.00					
71193	02/11/93	BENZO(k)FLUORANTHENE	380	U	380	370	U	370	0.00					
71193	02/11/93	BENZO(k)FLUORANTHENE	380	U	380	380	U	380	0.00					
71393	02/23/93	BENZO(k)FLUORANTHENE	400	U	400	380	U	380	0.00					
71393	02/23/93	BENZO(k)FLUORANTHENE	390	U	390	390	U	390	0.00					
71593	03/03/93	BENZO(k)FLUORANTHENE	390	U	390	390	U	390	0.00					
71793	03/02/93	BENZO(k)FLUORANTHENE	380	U	380	380	U	380	0.00					
71993	02/20/93	BENZO(k)FLUORANTHENE	420	U	420	400	U	400	0.00					
72193	02/26/93	BENZO(k)FLUORANTHENE	400	U	400	400	U	400	0.00					
72193	02/26/93	BENZO(k)FLUORANTHENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BENZOIC ACID	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	BENZOIC ACID	2000	U	2000	2000	U	2000	0.00					
70593	01/22/93	BENZOIC ACID	2000	U	2000	2100	U	2100	0.00					
70993	02/03/93	BENZOIC ACID	2000	U	2000	1900	U	1900	0.00					
71093	02/04/93	BENZOIC ACID	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	BENZOIC ACID	1900	U	1900	1900	U	1900	0.00					
71193	02/11/93	BENZOIC ACID	1900	U	1900	1900	U	1900	0.00					
71393	02/23/93	BENZOIC ACID	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	BENZOIC ACID	2000	U	2000	2000	U	2000	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71793	03/02/93	BENZOIC ACID	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	BENZOIC ACID	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	BENZOIC ACID	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	BENZOIC ACID	2000	U	2000	2000	U	2000	0.00	13	0			
70593	01/19/93	BENZYL ALCOHOL	410	U	410	390	U	390	0.00					
70593	01/22/93	BENZYL ALCOHOL	400	U	400	400	U	400	0.00					
70593	01/22/93	BENZYL ALCOHOL	400	U	400	410	U	410	0.00					
70993	02/03/93	BENZYL ALCOHOL	390	U	390	390	U	390	0.00					
71093	02/04/93	BENZYL ALCOHOL	380	U	380	380	U	380	0.00					
71193	02/11/93	BENZYL ALCOHOL	380	U	380	370	U	370	0.00					
71193	02/11/93	BENZYL ALCOHOL	380	U	380	380	U	380	0.00					
71393	02/23/93	BENZYL ALCOHOL	400	U	400	380	U	380	0.00					
71393	02/23/93	BENZYL ALCOHOL	390	U	390	390	U	390	0.00					
71593	03/03/93	BENZYL ALCOHOL	390	U	390	390	U	390	0.00					
71793	03/02/93	BENZYL ALCOHOL	380	U	380	380	U	380	0.00					
71993	02/20/93	BENZYL ALCOHOL	420	U	420	400	U	400	0.00					
72193	02/26/93	BENZYL ALCOHOL	400	U	400	400	U	400	0.00					
72193	02/26/93	BENZYL ALCOHOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BIS(2-CHLOROETHOXY)METHANE	410	U	410	390	U	390	0.00					
70593	01/22/93	BIS(2-CHLOROETHOXY)METHANE	400	U	400	400	U	400	0.00					
70593	01/22/93	BIS(2-CHLOROETHOXY)METHANE	400	U	400	410	U	410	0.00					
70993	02/03/93	BIS(2-CHLOROETHOXY)METHANE	390	U	390	390	U	390	0.00					
71093	02/04/93	BIS(2-CHLOROETHOXY)METHANE	380	U	380	380	U	380	0.00					
71193	02/11/93	BIS(2-CHLOROETHOXY)METHANE	380	U	380	370	U	370	0.00					
71193	02/11/93	BIS(2-CHLOROETHOXY)METHANE	380	U	380	380	U	380	0.00					
71393	02/23/93	BIS(2-CHLOROETHOXY)METHANE	400	U	400	380	U	380	0.00					
71393	02/23/93	BIS(2-CHLOROETHOXY)METHANE	390	U	390	390	U	390	0.00					
71593	03/03/93	BIS(2-CHLOROETHOXY)METHANE	390	U	390	390	U	390	0.00					
71793	03/02/93	BIS(2-CHLOROETHOXY)METHANE	380	U	380	380	U	380	0.00					
71993	02/20/93	BIS(2-CHLOROETHOXY)METHANE	420	U	420	400	U	400	0.00					
72193	02/26/93	BIS(2-CHLOROETHOXY)METHANE	400	U	400	400	U	400	0.00					
72193	02/26/93	BIS(2-CHLOROETHOXY)METHANE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BIS(2-CHLOROETHYL)ETHER	410	U	410	390	U	390	0.00					
70593	01/22/93	BIS(2-CHLOROETHYL)ETHER	400	U	400	400	U	400	0.00					
70593	01/22/93	BIS(2-CHLOROETHYL)ETHER	400	U	400	410	U	410	0.00					
70993	02/03/93	BIS(2-CHLOROETHYL)ETHER	390	U	390	390	U	390	0.00					
71093	02/04/93	BIS(2-CHLOROETHYL)ETHER	380	U	380	380	U	380	0.00					
71193	02/11/93	BIS(2-CHLOROETHYL)ETHER	380	U	380	370	U	370	0.00					
71193	02/11/93	BIS(2-CHLOROETHYL)ETHER	380	U	380	380	U	380	0.00					
71393	02/23/93	BIS(2-CHLOROETHYL)ETHER	400	U	400	380	U	380	0.00					
71393	02/23/93	BIS(2-CHLOROETHYL)ETHER	390	U	390	390	U	390	0.00					
71593	03/03/93	BIS(2-CHLOROETHYL)ETHER	390	U	390	390	U	390	0.00					
71793	03/02/93	BIS(2-CHLOROETHYL)ETHER	380	U	380	380	U	380	0.00					
71993	02/20/93	BIS(2-CHLOROETHYL)ETHER	420	U	420	400	U	400	0.00					
72193	02/26/93	BIS(2-CHLOROETHYL)ETHER	400	U	400	400	U	400	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
72193	02/26/93	BIS(2-CHLOROETHYL)ETHER	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BIS(2-CHLOROISOPROPYL)ETHER	410	U	410	390	U	390	0.00					
70593	01/22/93	BIS(2-CHLOROISOPROPYL)ETHER	400	U	400	400	U	400	0.00					
70593	01/22/93	BIS(2-CHLOROISOPROPYL)ETHER	400	U	400	410	U	410	0.00					
70993	02/03/93	BIS(2-CHLOROISOPROPYL)ETHER	390	U	390	390	U	390	0.00					
71093	02/04/93	BIS(2-CHLOROISOPROPYL)ETHER	380	U	380	380	U	380	0.00					
71193	02/11/93	BIS(2-CHLOROISOPROPYL)ETHER	380	U	380	370	U	370	0.00					
71193	02/11/93	BIS(2-CHLOROISOPROPYL)ETHER	380	U	380	380	U	380	0.00					
71393	02/23/93	BIS(2-CHLOROISOPROPYL)ETHER	400	U	400	380	U	380	0.00					
71393	02/23/93	BIS(2-CHLOROISOPROPYL)ETHER	390	U	390	390	U	390	0.00					
71593	03/03/93	BIS(2-CHLOROISOPROPYL)ETHER	390	U	390	390	U	390	0.00					
71793	03/02/93	BIS(2-CHLOROISOPROPYL)ETHER	380	U	380	380	U	380	0.00					
71993	02/20/93	BIS(2-CHLOROISOPROPYL)ETHER	420	U	420	400	U	400	0.00					
72193	02/26/93	BIS(2-CHLOROISOPROPYL)ETHER	400	U	400	400	U	400	0.00					
72193	02/26/93	BIS(2-CHLOROISOPROPYL)ETHER	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BIS(2-ETHYLHEXYL)PHTHALATE	410	U	410	390	U	390	0.00					
70593	01/22/93	BIS(2-ETHYLHEXYL)PHTHALATE	400	U	400	400	U	400	0.00					
70593	01/22/93	BIS(2-ETHYLHEXYL)PHTHALATE	400	U	400	410	U	410	0.00					
70993	02/03/93	BIS(2-ETHYLHEXYL)PHTHALATE	390	U	390	390	U	390	0.00					
71093	02/04/93	BIS(2-ETHYLHEXYL)PHTHALATE	380	U	380	380	U	380	0.00					
71193	02/11/93	BIS(2-ETHYLHEXYL)PHTHALATE	380	U	380	370	U	370	0.00					
71193	02/11/93	BIS(2-ETHYLHEXYL)PHTHALATE	380	U	380	380	U	380	0.00					
71393	02/23/93	BIS(2-ETHYLHEXYL)PHTHALATE	400	U	400	380	U	380	0.00					
71393	02/23/93	BIS(2-ETHYLHEXYL)PHTHALATE	390	U	390	390	U	390	0.00					
71593	03/03/93	BIS(2-ETHYLHEXYL)PHTHALATE	390	U	390	390	U	390	0.00					
71793	03/02/93	BIS(2-ETHYLHEXYL)PHTHALATE	380	U	380	380	U	380	0.00					
71993	02/20/93	BIS(2-ETHYLHEXYL)PHTHALATE	420	U	420	400	U	400	0.00					
72193	02/26/93	BIS(2-ETHYLHEXYL)PHTHALATE	400	U	400	400	U	400	0.00					
72193	02/26/93	BIS(2-ETHYLHEXYL)PHTHALATE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	BUTYL BENZYL PHTHALATE	410	U	410	390	U	390	0.00					
70593	01/22/93	BUTYL BENZYL PHTHALATE	400	U	400	400	U	400	0.00					
70593	01/22/93	BUTYL BENZYL PHTHALATE	400	U	400	410	U	410	0.00					
70993	02/03/93	BUTYL BENZYL PHTHALATE	390	U	390	390	U	390	0.00					
71093	02/04/93	BUTYL BENZYL PHTHALATE	380	U	380	380	U	380	0.00					
71193	02/11/93	BUTYL BENZYL PHTHALATE	380	U	380	370	U	370	0.00					
71193	02/11/93	BUTYL BENZYL PHTHALATE	380	U	380	380	U	380	0.00					
71393	02/23/93	BUTYL BENZYL PHTHALATE	400	U	400	380	U	380	0.00					
71393	02/23/93	BUTYL BENZYL PHTHALATE	390	U	390	390	U	390	0.00					
71593	03/03/93	BUTYL BENZYL PHTHALATE	390	U	390	390	U	390	0.00					
71793	03/02/93	BUTYL BENZYL PHTHALATE	380	U	380	380	U	380	0.00					
71993	02/20/93	BUTYL BENZYL PHTHALATE	420	U	420	400	U	400	0.00					
72193	02/26/93	BUTYL BENZYL PHTHALATE	400	U	400	400	U	400	0.00					
72193	02/26/93	BUTYL BENZYL PHTHALATE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	CHRYSENE	410	U	410	390	U	390	0.00					
70593	01/22/93	CHRYSENE	400	U	400	400	U	400	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/22/93	CHRYSENE	400	U	400	410	U	410	0.00					
70993	02/03/93	CHRYSENE	390	U	390	390	U	390	0.00					
71093	02/04/93	CHRYSENE	380	U	380	380	U	380	0.00					
71193	02/11/93	CHRYSENE	380	U	380	370	U	370	0.00					
71193	02/11/93	CHRYSENE	380	U	380	380	U	380	0.00					
71393	02/23/93	CHRYSENE	400	U	400	380	U	380	0.00					
71393	02/23/93	CHRYSENE	390	U	390	390	U	390	0.00					
71593	03/03/93	CHRYSENE	390	U	390	390	U	390	0.00					
71793	03/02/93	CHRYSENE	380	U	380	380	U	380	0.00					
71993	02/20/93	CHRYSENE	420	U	420	400	U	400	0.00					
72193	02/26/93	CHRYSENE	400	U	400	400	U	400	0.00					
72193	02/26/93	CHRYSENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	Di-n-BUTYL PHTHALATE	410	U	410	390	U	390	0.00					
70593	01/22/93	Di-n-BUTYL PHTHALATE	400	U	400	400	U	400	0.00					
70593	01/22/93	Di-n-BUTYL PHTHALATE	400	U	400	410	U	410	0.00					
70993	02/03/93	Di-n-BUTYL PHTHALATE	390	U	390	390	U	390	0.00					
71093	02/04/93	Di-n-BUTYL PHTHALATE	380	U	380	380	U	380	0.00					
71193	02/11/93	Di-n-BUTYL PHTHALATE	380	U	380	370	U	370	0.00					
71193	02/11/93	Di-n-BUTYL PHTHALATE	380	U	380	380	U	380	0.00					
71393	02/23/93	Di-n-BUTYL PHTHALATE	400	U	400	380	U	380	0.00					
71393	02/23/93	Di-n-BUTYL PHTHALATE	390	U	390	390	U	390	0.00					
71593	03/03/93	Di-n-BUTYL PHTHALATE	53	J	390	46	J	390	14.00					
71793	03/02/93	Di-n-BUTYL PHTHALATE	380	U	380	380	U	380	0.00					
71993	02/20/93	Di-n-BUTYL PHTHALATE	420	U	420	400	U	400	0.00					
72193	02/26/93	Di-n-BUTYL PHTHALATE	400	U	400	400	U	400	0.00					
72193	02/26/93	Di-n-BUTYL PHTHALATE	400	U	400	390	U	390	0.00	14	0	1.00	3.74	374.17
70593	01/19/93	Di-n-OCTYL PHTHALATE	410	U	410	390	U	390	0.00					
70593	01/22/93	Di-n-OCTYL PHTHALATE	400	U	400	400	U	400	0.00					
70593	01/22/93	Di-n-OCTYL PHTHALATE	400	U	400	410	U	410	0.00					
70993	02/03/93	Di-n-OCTYL PHTHALATE	390	U	390	390	U	390	0.00					
71093	02/04/93	Di-n-OCTYL PHTHALATE	380	U	380	380	U	380	0.00					
71193	02/11/93	Di-n-OCTYL PHTHALATE	380	U	380	370	U	370	0.00					
71193	02/11/93	Di-n-OCTYL PHTHALATE	380	U	380	380	U	380	0.00					
71393	02/23/93	Di-n-OCTYL PHTHALATE	400	U	400	380	U	380	0.00					
71393	02/23/93	Di-n-OCTYL PHTHALATE	390	U	390	390	U	390	0.00					
71593	03/03/93	Di-n-OCTYL PHTHALATE	390	U	390	390	U	390	0.00					
71793	03/02/93	Di-n-OCTYL PHTHALATE	380	U	380	380	U	380	0.00					
71993	02/20/93	Di-n-OCTYL PHTHALATE	420	U	420	400	U	400	0.00					
72193	02/26/93	Di-n-OCTYL PHTHALATE	400	U	400	400	U	400	0.00					
72193	02/26/93	Di-n-OCTYL PHTHALATE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	DIBENZO(a,h)ANTHRACENE	410	U	410	390	U	390	0.00					
70593	01/22/93	DIBENZO(a,h)ANTHRACENE	400	U	400	400	U	400	0.00					
70593	01/22/93	DIBENZO(a,h)ANTHRACENE	400	U	400	410	U	410	0.00					
70993	02/03/93	DIBENZO(a,h)ANTHRACENE	390	U	390	390	U	390	0.00					
71093	02/04/93	DIBENZO(a,h)ANTHRACENE	380	U	380	380	U	380	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71193	02/11/93	DIBENZO(a,h)ANTHRACENE	380	U	380	370	U	370	0.00					
71193	02/11/93	DIBENZO(a,h)ANTHRACENE	380	U	380	380	U	380	0.00					
71393	02/23/93	DIBENZO(a,h)ANTHRACENE	400	U	400	380	U	380	0.00					
71393	02/23/93	DIBENZO(a,h)ANTHRACENE	390	U	390	390	U	390	0.00					
71593	03/03/93	DIBENZO(a,h)ANTHRACENE	390	U	390	390	U	390	0.00					
71793	03/02/93	DIBENZO(a,h)ANTHRACENE	380	U	380	380	U	380	0.00					
71993	02/20/93	DIBENZO(a,h)ANTHRACENE	420	U	420	400	U	400	0.00					
72193	02/26/93	DIBENZO(a,h)ANTHRACENE	400	U	400	400	U	400	0.00					
72193	02/26/93	DIBENZO(a,h)ANTHRACENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	DIBENZOFURAN	410	U	410	390	U	390	0.00					
70593	01/22/93	DIBENZOFURAN	400	U	400	400	U	400	0.00					
70593	01/22/93	DIBENZOFURAN	400	U	400	410	U	410	0.00					
70993	02/03/93	DIBENZOFURAN	390	U	390	390	U	390	0.00					
71093	02/04/93	DIBENZOFURAN	380	U	380	380	U	380	0.00					
71193	02/11/93	DIBENZOFURAN	380	U	380	370	U	370	0.00					
71193	02/11/93	DIBENZOFURAN	380	U	380	380	U	380	0.00					
71393	02/23/93	DIBENZOFURAN	400	U	400	380	U	380	0.00					
71393	02/23/93	DIBENZOFURAN	390	U	390	390	U	390	0.00					
71593	03/03/93	DIBENZOFURAN	390	U	390	390	U	390	0.00					
71793	03/02/93	DIBENZOFURAN	380	U	380	380	U	380	0.00					
71993	02/20/93	DIBENZOFURAN	420	U	420	400	U	400	0.00					
72193	02/26/93	DIBENZOFURAN	400	U	400	400	U	400	0.00					
72193	02/26/93	DIBENZOFURAN	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	DIETHYL PHTHALATE	410	U	410	390	U	390	0.00					
70593	01/22/93	DIETHYL PHTHALATE	400	U	400	400	U	400	0.00					
70593	01/22/93	DIETHYL PHTHALATE	400	U	400	410	U	410	0.00					
70993	02/03/93	DIETHYL PHTHALATE	390	U	390	390	U	390	0.00					
71093	02/04/93	DIETHYL PHTHALATE	380	U	380	380	U	380	0.00					
71193	02/11/93	DIETHYL PHTHALATE	380	U	380	370	U	370	0.00					
71193	02/11/93	DIETHYL PHTHALATE	380	U	380	380	U	380	0.00					
71393	02/23/93	DIETHYL PHTHALATE	400	U	400	380	U	380	0.00					
71393	02/23/93	DIETHYL PHTHALATE	390	U	390	390	U	390	0.00					
71593	03/03/93	DIETHYL PHTHALATE	390	U	390	390	U	390	0.00					
71793	03/02/93	DIETHYL PHTHALATE	380	U	380	380	U	380	0.00					
71993	02/20/93	DIETHYL PHTHALATE	420	U	420	400	U	400	0.00					
72193	02/26/93	DIETHYL PHTHALATE	400	U	400	400	U	400	0.00					
72193	02/26/93	DIETHYL PHTHALATE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	DIMETHYL PHTHALATE	410	U	410	390	U	390	0.00					
70593	01/22/93	DIMETHYL PHTHALATE	400	U	400	400	U	400	0.00					
70593	01/22/93	DIMETHYL PHTHALATE	400	U	400	410	U	410	0.00					
70993	02/03/93	DIMETHYL PHTHALATE	390	U	390	390	U	390	0.00					
71093	02/04/93	DIMETHYL PHTHALATE	380	U	380	380	U	380	0.00					
71193	02/11/93	DIMETHYL PHTHALATE	380	U	380	370	U	370	0.00					
71193	02/11/93	DIMETHYL PHTHALATE	380	U	380	380	U	380	0.00					
71393	02/23/93	DIMETHYL PHTHALATE	400	U	400	380	U	380	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71393	02/23/93	DIMETHYL PHTHALATE	390	U	390	390	U	390	0.00					
71593	03/03/93	DIMETHYL PHTHALATE	390	U	390	390	U	390	0.00					
71793	03/02/93	DIMETHYL PHTHALATE	380	U	380	380	U	380	0.00					
71993	02/20/93	DIMETHYL PHTHALATE	420	U	420	400	U	400	0.00					
72193	02/26/93	DIMETHYL PHTHALATE	400	U	400	400	U	400	0.00					
72193	02/26/93	DIMETHYL PHTHALATE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	FLUORANTHENE	410	U	410	390	U	390	0.00					
70593	01/22/93	FLUORANTHENE	400	U	400	400	U	400	0.00					
70593	01/22/93	FLUORANTHENE	400	U	400	410	U	410	0.00					
70993	02/03/93	FLUORANTHENE	390	U	390	390	U	390	0.00					
71093	02/04/93	FLUORANTHENE	380	U	380	380	U	380	0.00					
71193	02/11/93	FLUORANTHENE	380	U	380	370	U	370	0.00					
71193	02/11/93	FLUORANTHENE	380	U	380	380	U	380	0.00					
71393	02/23/93	FLUORANTHENE	400	U	400	380	U	380	0.00					
71393	02/23/93	FLUORANTHENE	390	U	390	390	U	390	0.00					
71593	03/03/93	FLUORANTHENE	390	U	390	390	U	390	0.00					
71793	03/02/93	FLUORANTHENE	380	U	380	380	U	380	0.00					
71993	02/20/93	FLUORANTHENE	420	U	420	400	U	400	0.00					
72193	02/26/93	FLUORANTHENE	400	U	400	400	U	400	0.00					
72193	02/26/93	FLUORANTHENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	FLUORENE	410	U	410	390	U	390	0.00					
70593	01/22/93	FLUORENE	400	U	400	400	U	400	0.00					
70593	01/22/93	FLUORENE	400	U	400	410	U	410	0.00					
70993	02/03/93	FLUORENE	390	U	390	390	U	390	0.00					
71093	02/04/93	FLUORENE	380	U	380	380	U	380	0.00					
71193	02/11/93	FLUORENE	380	U	380	370	U	370	0.00					
71193	02/11/93	FLUORENE	380	U	380	380	U	380	0.00					
71393	02/23/93	FLUORENE	400	U	400	380	U	380	0.00					
71393	02/23/93	FLUORENE	390	U	390	390	U	390	0.00					
71593	03/03/93	FLUORENE	390	U	390	390	U	390	0.00					
71793	03/02/93	FLUORENE	380	U	380	380	U	380	0.00					
71993	02/20/93	FLUORENE	420	U	420	400	U	400	0.00					
72193	02/26/93	FLUORENE	400	U	400	400	U	400	0.00					
72193	02/26/93	FLUORENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	HEXACHLOROBENZENE	410	U	410	390	U	390	0.00					
70593	01/22/93	HEXACHLOROBENZENE	400	U	400	400	U	400	0.00					
70593	01/22/93	HEXACHLOROBENZENE	400	U	400	410	U	410	0.00					
70993	02/03/93	HEXACHLOROBENZENE	390	U	390	390	U	390	0.00					
71093	02/04/93	HEXACHLOROBENZENE	380	U	380	380	U	380	0.00					
71193	02/11/93	HEXACHLOROBENZENE	380	U	380	370	U	370	0.00					
71193	02/11/93	HEXACHLOROBENZENE	380	U	380	380	U	380	0.00					
71393	02/23/93	HEXACHLOROBENZENE	400	U	400	380	U	380	0.00					
71393	02/23/93	HEXACHLOROBENZENE	390	U	390	390	U	390	0.00					
71593	03/03/93	HEXACHLOROBENZENE	390	U	390	390	U	390	0.00					
71793	03/02/93	HEXACHLOROBENZENE	380	U	380	380	U	380	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71993	02/20/93	HEXACHLOROBENZENE	420	U	420	400	U	400	0.00					
72193	02/26/93	HEXACHLOROBENZENE	400	U	400	400	U	400	0.00					
72193	02/26/93	HEXACHLOROBENZENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	HEXACHLOROBUTADIENE	410	U	410	390	U	390	0.00					
70593	01/22/93	HEXACHLOROBUTADIENE	400	U	400	400	U	400	0.00					
70593	01/22/93	HEXACHLOROBUTADIENE	400	U	400	410	U	410	0.00					
70993	02/03/93	HEXACHLOROBUTADIENE	390	U	390	390	U	390	0.00					
71093	02/04/93	HEXACHLOROBUTADIENE	380	U	380	380	U	380	0.00					
71193	02/11/93	HEXACHLOROBUTADIENE	380	U	380	370	U	370	0.00					
71193	02/11/93	HEXACHLOROBUTADIENE	380	U	380	380	U	380	0.00					
71393	02/23/93	HEXACHLOROBUTADIENE	400	U	400	380	U	380	0.00					
71393	02/26/93	HEXACHLOROBUTADIENE	390	U	390	390	U	390	0.00					
71593	03/03/93	HEXACHLOROBUTADIENE	390	U	390	390	U	390	0.00					
71793	03/02/93	HEXACHLOROBUTADIENE	380	U	380	380	U	380	0.00					
71993	02/20/93	HEXACHLOROBUTADIENE	420	U	420	400	U	400	0.00					
72193	02/26/93	HEXACHLOROBUTADIENE	400	U	400	400	U	400	0.00					
72193	02/26/93	HEXACHLOROBUTADIENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	HEXACHLOROCYCLOPENTADIENE	410	U	410	390	U	390	0.00					
70593	01/22/93	HEXACHLOROCYCLOPENTADIENE	400	U	400	400	U	400	0.00					
70593	01/22/93	HEXACHLOROCYCLOPENTADIENE	400	U	400	410	U	410	0.00					
70993	02/03/93	HEXACHLOROCYCLOPENTADIENE	390	U	390	390	U	390	0.00					
71093	02/04/93	HEXACHLOROCYCLOPENTADIENE	380	U	380	380	U	380	0.00					
71193	02/11/93	HEXACHLOROCYCLOPENTADIENE	380	U	380	370	U	370	0.00					
71193	02/11/93	HEXACHLOROCYCLOPENTADIENE	380	U	380	380	U	380	0.00					
71393	02/23/93	HEXACHLOROCYCLOPENTADIENE	400	U	400	380	U	380	0.00					
71393	02/23/93	HEXACHLOROCYCLOPENTADIENE	390	U	390	390	U	390	0.00					
71593	03/03/93	HEXACHLOROCYCLOPENTADIENE	390	U	390	390	U	390	0.00					
71993	02/20/93	HEXACHLOROCYCLOPENTADIENE	420	U	420	400	U	400	0.00					
72193	02/26/93	HEXACHLOROCYCLOPENTADIENE	400	U	400	400	U	400	0.00					
72193	02/26/93	HEXACHLOROCYCLOPENTADIENE	400	U	400	390	U	390	0.00	13	0			
70593	01/19/93	HEXACHLOROETHANE	410	U	410	390	U	390	0.00					
70593	01/22/93	HEXACHLOROETHANE	400	U	400	400	U	400	0.00					
70593	01/22/93	HEXACHLOROETHANE	400	U	400	410	U	410	0.00					
70993	02/03/93	HEXACHLOROETHANE	390	U	390	390	U	390	0.00					
71093	02/04/93	HEXACHLOROETHANE	380	U	380	380	U	380	0.00					
71193	02/11/93	HEXACHLOROETHANE	380	U	380	370	U	370	0.00					
71193	02/11/93	HEXACHLOROETHANE	380	U	380	380	U	380	0.00					
71393	02/23/93	HEXACHLOROETHANE	400	U	400	380	U	380	0.00					
71393	02/23/93	HEXACHLOROETHANE	390	U	390	390	U	390	0.00					
71593	03/03/93	HEXACHLOROETHANE	390	U	390	390	U	390	0.00					
71793	03/02/93	HEXACHLOROETHANE	380	U	380	380	U	380	0.00					
71993	02/20/93	HEXACHLOROETHANE	420	U	420	400	U	400	0.00					
72193	02/26/93	HEXACHLOROETHANE	400	U	400	400	U	400	0.00					
72193	02/26/93	HEXACHLOROETHANE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	INDENO(1,2,3-cd)PYRENE	410	U	410	390	U	390	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/22/93	INDENO(1,2,3-cd)PYRENE	400	U	400	400	U	400	0.00					
70593	01/22/93	INDENO(1,2,3-cd)PYRENE	400	U	400	410	U	410	0.00					
70993	02/03/93	INDENO(1,2,3-cd)PYRENE	390	U	390	390	U	390	0.00					
71093	02/04/93	INDENO(1,2,3-cd)PYRENE	380	U	380	380	U	380	0.00					
71193	02/11/93	INDENO(1,2,3-cd)PYRENE	380	U	380	370	U	370	0.00					
71193	02/11/93	INDENO(1,2,3-cd)PYRENE	380	U	380	380	U	380	0.00					
71393	02/23/93	INDENO(1,2,3-cd)PYRENE	400	U	400	380	U	380	0.00					
71393	02/23/93	INDENO(1,2,3-cd)PYRENE	390	U	390	390	U	390	0.00					
71593	03/03/93	INDENO(1,2,3-cd)PYRENE	390	U	390	390	U	390	0.00					
71793	03/02/93	INDENO(1,2,3-cd)PYRENE	380	U	380	380	U	380	0.00					
71993	02/20/93	INDENO(1,2,3-cd)PYRENE	420	U	420	400	U	400	0.00					
72193	02/26/93	INDENO(1,2,3-cd)PYRENE	400	U	400	400	U	400	0.00					
72193	02/26/93	INDENO(1,2,3-cd)PYRENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	ISOPHORONE	410	U	410	390	U	390	0.00					
70593	01/22/93	ISOPHORONE	400	U	400	400	U	400	0.00					
70593	01/22/93	ISOPHORONE	400	U	400	410	U	410	0.00					
70993	02/03/93	ISOPHORONE	390	U	390	390	U	390	0.00					
71093	02/04/93	ISOPHORONE	380	U	380	380	U	380	0.00					
71193	02/11/93	ISOPHORONE	380	U	380	370	U	370	0.00					
71193	02/11/93	ISOPHORONE	380	U	380	380	U	380	0.00					
71393	02/23/93	ISOPHORONE	400	U	400	380	U	380	0.00					
71393	02/23/93	ISOPHORONE	390	U	390	390	U	390	0.00					
71593	03/03/93	ISOPHORONE	390	U	390	390	U	390	0.00					
71793	03/02/93	ISOPHORONE	380	U	380	380	U	380	0.00					
71993	02/20/93	ISOPHORONE	420	U	420	400	U	400	0.00					
72193	02/26/93	ISOPHORONE	400	U	400	400	U	400	0.00					
72193	02/26/93	ISOPHORONE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	N-NITROSO-DI-n-PROPYLAMINE	410	U	410	390	U	390	0.00					
70593	01/22/93	N-NITROSO-DI-n-PROPYLAMINE	400	U	400	400	U	400	0.00					
70593	01/22/93	N-NITROSO-DI-n-PROPYLAMINE	400	U	400	410	U	410	0.00					
70993	02/03/93	N-NITROSO-DI-n-PROPYLAMINE	390	U	390	390	U	390	0.00					
71093	02/04/93	N-NITROSO-DI-n-PROPYLAMINE	380	U	380	380	U	380	0.00					
71193	02/11/93	N-NITROSO-DI-n-PROPYLAMINE	380	U	380	370	U	370	0.00					
71193	02/11/93	N-NITROSO-DI-n-PROPYLAMINE	380	U	380	380	U	380	0.00					
71393	02/23/93	N-NITROSO-DI-n-PROPYLAMINE	380	U	380	380	U	380	0.00					
71393	02/23/93	N-NITROSO-DI-n-PROPYLAMINE	400	U	400	380	U	380	0.00					
71593	03/03/93	N-NITROSO-DI-n-PROPYLAMINE	390	U	390	390	U	390	0.00					
71793	03/02/93	N-NITROSO-DI-n-PROPYLAMINE	380	U	380	380	U	380	0.00					
71993	02/20/93	N-NITROSO-DI-n-PROPYLAMINE	420	U	420	400	U	400	0.00					
72193	02/26/93	N-NITROSO-DI-n-PROPYLAMINE	400	U	400	400	U	400	0.00					
72193	02/26/93	N-NITROSO-DI-n-PROPYLAMINE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	N-NITROSODIPHENYLAMINE	410	U	410	390	U	390	0.00					
70593	01/22/93	N-NITROSODIPHENYLAMINE	400	U	400	400	U	400	0.00					
70593	01/22/93	N-NITROSODIPHENYLAMINE	400	U	400	410	U	410	0.00					
70993	02/03/93	N-NITROSODIPHENYLAMINE	390	U	390	390	U	390	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	DUP RESULT	DUP QUAL	DUP DL	RPD	N > 35%	Avg	StDev	%CV
71093	02/04/93	NNITROSODIPHENYLAMINE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71193	02/11/93	NNITROSODIPHENYLAMINE	380	U	380	370	U	370	0.00	0.00	0.00	0.00
71193	02/11/93	NNITROSODIPHENYLAMINE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71393	02/23/93	NNITROSODIPHENYLAMINE	400	U	400	380	U	380	0.00	0.00	0.00	0.00
71393	02/23/93	NNITROSODIPHENYLAMINE	390	U	390	390	U	390	0.00	0.00	0.00	0.00
71393	03/03/93	NNITROSODIPHENYLAMINE	390	U	390	390	U	390	0.00	0.00	0.00	0.00
71793	03/02/93	NNITROSODIPHENYLAMINE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71993	02/20/93	NNITROSODIPHENYLAMINE	420	U	420	400	U	400	0.00	0.00	0.00	0.00
72193	02/26/93	NNITROSODIPHENYLAMINE	400	U	400	400	U	400	0.00	0.00	0.00	0.00
72193	02/26/93	NNITROSODIPHENYLAMINE	400	U	400	390	U	390	0.00	0.00	0.00	0.00
70593	01/19/93	NAPHTHALENE	410	U	410	390	U	390	0.00	0.00	0.00	0.00
70593	01/22/93	NAPHTHALENE	400	U	400	400	U	400	0.00	0.00	0.00	0.00
70593	01/22/93	NAPHTHALENE	400	U	400	400	U	410	0.00	0.00	0.00	0.00
70993	02/03/93	NAPHTHALENE	390	U	390	390	U	390	0.00	0.00	0.00	0.00
70993	02/04/93	NAPHTHALENE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71093	02/11/93	NAPHTHALENE	380	U	380	370	U	370	0.00	0.00	0.00	0.00
71193	02/11/93	NAPHTHALENE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71393	02/23/93	NAPHTHALENE	400	U	400	380	U	380	0.00	0.00	0.00	0.00
71393	02/23/93	NAPHTHALENE	390	U	390	390	U	390	0.00	0.00	0.00	0.00
71593	03/03/93	NAPHTHALENE	390	U	390	390	U	390	0.00	0.00	0.00	0.00
71793	03/02/93	NAPHTHALENE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71993	02/20/93	NAPHTHALENE	420	U	420	400	U	400	0.00	0.00	0.00	0.00
72193	02/26/93	NAPHTHALENE	400	U	400	400	U	400	0.00	0.00	0.00	0.00
72193	02/26/93	NAPHTHALENE	400	U	400	390	U	390	0.00	0.00	0.00	0.00
70593	01/19/93	NITROBENZENE	410	U	410	390	U	390	0.00	0.00	0.00	0.00
70593	01/22/93	NITROBENZENE	400	U	400	400	U	400	0.00	0.00	0.00	0.00
70593	01/22/93	NITROBENZENE	400	U	400	410	U	410	0.00	0.00	0.00	0.00
70993	02/03/93	NITROBENZENE	390	U	390	390	U	390	0.00	0.00	0.00	0.00
71093	02/04/93	NITROBENZENE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71193	02/11/93	NITROBENZENE	380	U	380	370	U	370	0.00	0.00	0.00	0.00
71193	02/11/93	NITROBENZENE	380	U	380	380	U	380	0.00	0.00	0.00	0.00
71393	02/23/93	NITROBENZENE	400	U	400	400	U	400	0.00	0.00	0.00	0.00
71393	02/23/93	NITROBENZENE	390	U	390	390	U	390	0.00	0.00	0.00	0.00
71593	03/03/93	NITROBENZENE	400	U	400	390	U	390	0.00	0.00	0.00	0.00
71793	03/02/93	NITROBENZENE	380	U	380	370	U	370	0.00	0.00	0.00	0.00
71993	02/20/93	NITROBENZENE	420	U	420	400	U	400	0.00	0.00	0.00	0.00
72193	02/26/93	NITROBENZENE	400	U	400	400	U	400	0.00	0.00	0.00	0.00
72193	02/26/93	NITROBENZENE	400	U	400	390	U	390	0.00	0.00	0.00	0.00
70593	01/19/93	PENTACHLOROPHENOL	2000	U	2000	2000	U	2000	0.00	0.00	0.00	0.00
70593	01/22/93	PENTACHLOROPHENOL	2000	U	2000	2000	U	2000	0.00	0.00	0.00	0.00
70593	01/22/93	PENTACHLOROPHENOL	2000	U	2000	2100	U	2100	0.00	0.00	0.00	0.00
70993	02/03/93	PENTACHLOROPHENOL	1900	U	1900	1900	U	1900	0.00	0.00	0.00	0.00
71093	02/04/93	PENTACHLOROPHENOL	1900	U	1900	1900	U	1900	0.00	0.00	0.00	0.00
71193	02/11/93	PENTACHLOROPHENOL	1900	U	1900	1900	U	1900	0.00	0.00	0.00	0.00
71193	02/11/93	PENTACHLOROPHENOL	1900	U	1900	1900	U	1900	0.00	0.00	0.00	0.00

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71393	02/23/93	PENTACHLOROPHENOL	2000	U	2000	1900	U	1900	0.00					
71393	02/23/93	PENTACHLOROPHENOL	2000	U	2000	2000	U	2000	0.00					
71593	03/03/93	PENTACHLOROPHENOL	1900	U	1900	2000	U	2000	0.00					
71793	03/02/93	PENTACHLOROPHENOL	1900	U	1900	1900	U	1900	0.00					
71993	02/20/93	PENTACHLOROPHENOL	2100	U	2100	2000	U	2000	0.00					
72193	02/26/93	PENTACHLOROPHENOL	2000	U	2000	2000	U	2000	0.00					
72193	02/26/93	PENTACHLOROPHENOL	2000	U	2000	2000	U	2000	0.00	14	0			
70593	01/19/93	PHENANTHRENE	410	U	410	390	U	390	0.00					
70593	01/22/93	PHENANTHRENE	400	U	400	400	U	400	0.00					
70593	01/22/93	PHENANTHRENE	400	U	400	410	U	410	0.00					
70993	02/03/93	PHENANTHRENE	390	U	390	390	U	390	0.00					
71093	02/04/93	PHENANTHRENE	380	U	380	380	U	380	0.00					
71193	02/11/93	PHENANTHRENE	380	U	380	370	U	370	0.00					
71193	02/11/93	PHENANTHRENE	380	U	380	380	U	380	0.00					
71393	02/23/93	PHENANTHRENE	400	U	400	380	U	380	0.00					
71393	02/23/93	PHENANTHRENE	390	U	390	390	U	390	0.00					
71593	03/03/93	PHENANTHRENE	390	U	390	390	U	390	0.00					
71793	03/02/93	PHENANTHRENE	380	U	380	380	U	380	0.00					
71993	02/20/93	PHENANTHRENE	420	U	420	400	U	400	0.00					
72193	02/26/93	PHENANTHRENE	400	U	400	400	U	400	0.00					
72193	02/26/93	PHENANTHRENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	PHENOL	410	U	410	390	U	390	0.00					
70593	01/22/93	PHENOL	400	U	400	400	U	400	0.00					
70593	01/22/93	PHENOL	400	U	400	410	U	410	0.00					
70993	02/03/93	PHENOL	390	U	390	390	U	390	0.00					
71093	02/04/93	PHENOL	380	U	380	380	U	380	0.00					
71193	02/11/93	PHENOL	380	U	380	370	U	370	0.00					
71193	02/11/93	PHENOL	380	U	380	380	U	380	0.00					
71393	02/23/93	PHENOL	400	U	400	380	U	380	0.00					
71393	02/23/93	PHENOL	390	U	390	390	U	390	0.00					
71593	03/03/93	PHENOL	390	U	390	390	U	390	0.00					
71793	03/02/93	PHENOL	380	U	380	380	U	380	0.00					
71993	02/20/93	PHENOL	420	U	420	400	U	400	0.00					
72193	02/26/93	PHENOL	400	U	400	400	U	400	0.00					
72193	02/26/93	PHENOL	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	PYRENE	410	U	410	390	U	390	0.00					
70593	01/22/93	PYRENE	400	U	400	400	U	400	0.00					
70593	01/22/93	PYRENE	400	U	400	410	U	410	0.00					
70993	02/03/93	PYRENE	390	U	390	390	U	390	0.00					
71093	02/04/93	PYRENE	380	U	380	380	U	380	0.00					
71193	02/11/93	PYRENE	380	U	380	370	U	370	0.00					
71193	02/11/93	PYRENE	380	U	380	380	U	380	0.00					
71393	02/23/93	PYRENE	400	U	400	380	U	380	0.00					
71393	02/23/93	PYRENE	390	U	390	390	U	390	0.00					
71593	03/03/93	PYRENE	390	U	390	390	U	390	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71793	03/02/93	PYRENE	380	U	380	380	U	380	0.00					
71993	02/20/93	PYRENE	420	U	420	400	U	400	0.00					
72193	02/26/93	PYRENE	400	U	400	400	U	400	0.00					
72193	02/26/93	PYRENE	400	U	400	390	U	390	0.00	14	0			
70593	01/19/93	4,4'-DDD	19	U	19	19	U	19	0.00					
70593	01/22/93	4,4'-DDD	19	U	19	19	U	19	0.00					
70593	01/22/93	4,4'-DDD	19	U	19	20	U	20	0.00	3	0			
70593	01/19/93	4,4'-DDE	19	U	19	19	U	19	0.00					
70593	01/22/93	4,4'-DDE	19	U	19	19	U	19	0.00					
70593	01/22/93	4,4'-DDE	19	U	19	20	U	20	0.00	3	0			
70593	01/19/93	4,4'-DDT	19	U	19	19	U	19	0.00					
70593	01/22/93	4,4'-DDT	19	U	19	19	U	19	0.00					
70593	01/22/93	4,4'-DDT	19	U	19	20	U	20	0.00	3	0			
70593	01/19/93	ALDRIN	9.7	U	9.7	9.6	U	9.6	0.00					
70593	01/22/93	ALDRIN	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	ALDRIN	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	alpha-BHC	9.7	U	9.7	9.6	U	9.6	0.00					
70593	01/22/93	alpha-BHC	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	alpha-BHC	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	alpha-CHLORDANE	97	U	97	96	U	96	0.00					
70593	01/22/93	alpha-CHLORDANE	96	U	96	94	U	94	0.00					
70593	01/22/93	alpha-CHLORDANE	96	U	96	99	U	99	0.00	3	0			
70593	01/19/93	AROCLOR-1016	97	U	97	96	U	96	0.00					
70593	01/22/93	AROCLOR-1016	96	U	96	94	U	94	0.00					
70593	01/22/93	AROCLOR-1016	96	U	96	99	U	99	0.00					
70993	02/03/93	AROCLOR-1016	46	U	46	47	U	47	0.00					
71093	02/04/93	AROCLOR-1016	46	U	46	45	U	45	0.00					
71193	02/11/93	AROCLOR-1016	45	U	45	46	U	46	0.00					
71193	02/11/93	AROCLOR-1016	46	U	46	46	U	46	0.00					
71393	02/23/93	AROCLOR-1016	47	U	47	46	U	46	0.00					
71393	02/23/93	AROCLOR-1016	47	U	47	47	U	47	0.00					
71593	03/03/93	AROCLOR-1016	47	U	47	46	U	46	0.00					
71793	03/02/93	AROCLOR-1016	45	U	45	45	U	45	0.00					
71993	02/20/93	AROCLOR-1016	50	U	50	48	U	48	0.00					
72193	02/26/93	AROCLOR-1016	49	U	49	48	U	48	0.00					
72193	02/26/93	AROCLOR-1016	47	U	47	48	U	48	0.00	14	0			
70593	01/19/93	AROCLOR-1221	97	U	97	96	U	96	0.00					
70593	01/22/93	AROCLOR-1221	96	U	96	94	U	94	0.00					
70593	01/22/93	AROCLOR-1221	96	U	96	99	U	99	0.00					
70993	02/03/93	AROCLOR-1221	46	U	46	47	U	47	0.00					
71093	02/04/93	AROCLOR-1221	46	U	46	45	U	45	0.00					
71193	02/11/93	AROCLOR-1221	45	U	45	46	U	46	0.00					
71193	02/11/93	AROCLOR-1221	46	U	46	46	U	46	0.00					
71393	02/23/93	AROCLOR-1221	47	U	47	46	U	46	0.00					
71393	02/23/93	AROCLOR-1221	47	U	47	47	U	47	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
71593	03/03/93	AROCLOR-1221	47	U	47	46	U	46	0.00					
71793	03/02/93	AROCLOR-1221	45	U	45	45	U	45	0.00					
71993	02/20/93	AROCLOR-1221	50	U	50	48	U	48	0.00					
72193	02/26/93	AROCLOR-1221	49	U	49	48	U	48	0.00					
72193	02/26/93	AROCLOR-1221	47	U	47	48	U	48	0.00	14	0			
70593	01/19/93	AROCLOR-1232	97	U	97	96	U	96	0.00					
70593	01/22/93	AROCLOR-1232	96	U	96	94	U	94	0.00					
70593	01/22/93	AROCLOR-1232	96	U	96	99	U	99	0.00					
70993	02/03/93	AROCLOR-1232	46	U	46	47	U	47	0.00					
71093	02/04/93	AROCLOR-1232	46	U	46	45	U	45	0.00					
71193	02/11/93	AROCLOR-1232	45	U	45	46	U	46	0.00					
71193	02/11/93	AROCLOR-1232	46	U	46	46	U	46	0.00					
71393	02/23/93	AROCLOR-1232	47	U	47	46	U	46	0.00					
71393	02/23/93	AROCLOR-1232	47	U	47	47	U	47	0.00					
71593	03/03/93	AROCLOR-1232	47	U	47	46	U	46	0.00					
71793	03/02/93	AROCLOR-1232	45	U	45	45	U	45	0.00					
71993	02/20/93	AROCLOR-1232	50	U	50	48	U	48	0.00					
72193	02/26/93	AROCLOR-1232	49	U	49	48	U	48	0.00					
72193	02/26/93	AROCLOR-1232	47	U	47	48	U	48	0.00	14	0			
70593	01/19/93	AROCLOR-1242	97	U	97	96	U	96	0.00					
70593	01/22/93	AROCLOR-1242	96	U	96	94	U	94	0.00					
70593	01/22/93	AROCLOR-1242	96	U	96	99	U	99	0.00					
70993	02/03/93	AROCLOR-1242	46	U	46	47	U	47	0.00					
71093	02/04/93	AROCLOR-1242	46	U	46	45	U	45	0.00					
71193	02/11/93	AROCLOR-1242	45	U	45	46	U	46	0.00					
71193	02/11/93	AROCLOR-1242	46	U	46	46	U	46	0.00					
71393	02/23/93	AROCLOR-1242	47	U	47	46	U	46	0.00					
71393	02/23/93	AROCLOR-1242	47	U	47	47	U	47	0.00					
71593	03/03/93	AROCLOR-1242	47	U	47	46	U	46	0.00					
71793	03/02/93	AROCLOR-1242	45	U	45	45	U	45	0.00					
71993	02/20/93	AROCLOR-1242	50	U	50	48	U	48	0.00					
72193	02/26/93	AROCLOR-1242	49	U	49	48	U	48	0.00					
72193	02/26/93	AROCLOR-1242	47	U	47	48	U	48	0.00	14	0			
70593	01/19/93	AROCLOR-1248	97	U	97	96	U	96	0.00					
70593	01/22/93	AROCLOR-1248	96	U	96	94	U	94	0.00					
70593	01/22/93	AROCLOR-1248	96	U	96	99	U	99	0.00					
70993	02/03/93	AROCLOR-1248	46	U	46	47	U	47	0.00					
71093	02/04/93	AROCLOR-1248	46	U	46	45	U	45	0.00					
71193	02/11/93	AROCLOR-1248	45	U	45	46	U	46	0.00					
71193	02/11/93	AROCLOR-1248	46	U	46	46	U	46	0.00					
71393	02/23/93	AROCLOR-1248	47	U	47	46	U	46	0.00					
71393	02/23/93	AROCLOR-1248	47	U	47	47	U	47	0.00					
71593	03/03/93	AROCLOR-1248	47	U	47	46	U	46	0.00					
71793	03/02/93	AROCLOR-1248	45	U	45	45	U	45	0.00					
71993	02/20/93	AROCLOR-1248	50	U	50	48	U	48	0.00					

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
72193	02/26/93	AROCLOR-1248	49	U	49	48	U	48	0.00					
72193	02/26/93	AROCLOR-1248	47	U	47	48	U	48	0.00	14	0			
70593	01/19/93	AROCLOR-1254	190	U	190	190	U	190	0.00					
70593	01/22/93	AROCLOR-1254	190	U	190	190	U	190	0.00					
70593	01/22/93	AROCLOR-1254	190	U	190	200	U	200	0.00					
70993	02/03/93	AROCLOR-1254	92	U	92	94	U	94	0.00					
71093	02/04/93	AROCLOR-1254	92	U	92	91	U	91	0.00					
71193	02/11/93	AROCLOR-1254	90	U	90	91	U	91	0.00					
71193	02/11/93	AROCLOR-1254	91	U	91	92	U	92	0.00					
71393	02/23/93	AROCLOR-1254	94	U	94	92	U	92	0.00					
71393	02/23/93	AROCLOR-1254	94	U	94	94	U	94	0.00					
71593	03/03/93	AROCLOR-1254	93	U	93	91	U	91	0.00					
71793	03/02/93	AROCLOR-1254	91	U	91	91	U	91	0.00					
71993	02/20/93	AROCLOR-1254	99	U	99	95	U	95	0.00					
72193	02/26/93	AROCLOR-1254	98	U	98	97	U	97	0.00					
72193	02/26/93	AROCLOR-1254	94	U	94	96	U	96	0.00	14	0			
70593	01/19/93	AROCLOR-1260	190	U	190	190	U	190	0.00					
70593	01/22/93	AROCLOR-1260	190	U	190	190	U	190	0.00					
70593	01/22/93	AROCLOR-1260	190	U	190	200	U	200	0.00					
70993	02/03/93	AROCLOR-1260	92	U	92	94	U	94	0.00					
71093	02/04/93	AROCLOR-1260	92	U	92	91	U	91	0.00					
71193	02/11/93	AROCLOR-1260	90	U	90	91	U	91	0.00					
71193	02/11/93	AROCLOR-1260	91	U	91	92	U	92	0.00					
71393	02/23/93	AROCLOR-1260	94	U	94	92	U	92	0.00					
71393	02/23/93	AROCLOR-1260	94	U	94	94	U	94	0.00					
71593	03/03/93	AROCLOR-1260	93	U	93	91	U	91	0.00					
71793	03/02/93	AROCLOR-1260	91	U	91	91	U	91	0.00					
71993	02/20/93	AROCLOR-1260	99	U	99	95	U	95	0.00					
72193	02/26/93	AROCLOR-1260	98	U	98	97	U	97	0.00					
72193	02/26/93	AROCLOR-1260	94	U	94	96	U	96	0.00	14	0			
70593	01/19/93	beta-BHC	9.7	U	9.7	9.6	U	9.6	0.00					
70593	01/22/93	beta-BHC	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	beta-BHC	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	delta-BHC	9.7	U	9.7	9.6	U	9.6	0.00					
70593	01/22/93	delta-BHC	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	delta-BHC	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	DIELDRIN	19	U	19	19	U	19	0.00					
70593	01/22/93	DIELDRIN	19	U	19	19	U	19	0.00					
70593	01/22/93	DIELDRIN	19	U	19	20	U	20	0.00	3	0			
70593	01/19/93	ENDOSULFAN I	9.7	U	10	9.6	U	9.6	0.00					
70593	01/22/93	ENDOSULFAN I	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	ENDOSULFAN I	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	ENDOSULFAN II	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDOSULFAN II	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDOSULFAN II	19	U	19	20	U	20	0.00	3	0			

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/19/93	ENDOSULFAN SULFATE	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDOSULFAN SULFATE	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDOSULFAN SULFATE	19	U	19	20	U	20	0.00	3	0			
70593	01/19/93	ENDRIN	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDRIN	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDRIN	19	U	19	20	U	20	0.00	3	0			
70593	01/19/93	ENDRIN KETONE	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDRIN KETONE	19	U	19	19	U	19	0.00					
70593	01/22/93	ENDRIN KETONE	19	U	19	20	U	20	0.00	3	0			
70593	01/19/93	gamma-BHC (LINDANE)	9.7	U	9.7	9.6	U	9.6	0.00					
70593	01/22/93	gamma-BHC (LINDANE)	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	gamma-BHC (LINDANE)	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	gamma-CHLORDANE	97	U	97	96	U	96	0.00					
70593	01/22/93	gamma-CHLORDANE	96	U	96	94	U	94	0.00					
70593	01/22/93	gamma-CHLORDANE	96	U	96	99	U	99	0.00	3	0			
70593	01/19/93	HEPTACHLOR	9.7	U	9.7	9.6	U	9.6	0.00					
70593	01/22/93	HEPTACHLOR	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	HEPTACHLOR	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	HEPTACHLOR EPOXIDE	9.7	U	10	9.6	U	9.6	0.00					
70593	01/22/93	HEPTACHLOR EPOXIDE	9.6	U	9.6	9.4	U	9.4	0.00					
70593	01/22/93	HEPTACHLOR EPOXIDE	9.6	U	9.6	9.9	U	9.9	0.00	3	0			
70593	01/19/93	METHOXYCHLOR	97	U	97	96	U	96	0.00					
70593	01/22/93	METHOXYCHLOR	96	U	96	94	U	94	0.00					
70593	01/22/93	METHOXYCHLOR	96	U	96	99	U	99	0.00	3	0			
70593	01/19/93	TOXAPHENE	190	U	190	190	U	190	0.00					
70593	01/22/93	TOXAPHENE	190	U	190	190	U	190	0.00					
70593	01/22/93	TOXAPHENE	190	U	190	200	U	200	0.00	3	0			
70493	01/29/93	% SOLIDS	91	.1	89.7	.1	1.00							
70493	01/30/93	% SOLIDS	92.4	.1	92.4	.1	0.00							
70593	01/19/93	% SOLIDS	80.4	.1	83.4	.1	3.70							
70593	01/22/93	% SOLIDS	83	.1	83.2	.1	0.00							
70593	01/22/93	% SOLIDS	82	.1	80.4	.1	2.00							
70993	02/03/93	% SOLIDS	84.8	.1	85.4	.1	0.70							
71093	02/04/93	% SOLIDS	86.4	.1	85.7	.1	0.80							
71193	02/11/93	% SOLIDS	86.9	.1	87	.1	0.00							
71193	02/11/93	% SOLIDS	87.1	.1	87	.1	0.00							
71393	02/23/93	% SOLIDS	83.9	.1	85	.1	1.00							
71393	02/23/93	% SOLIDS	84.1	.1	84.4	.1	0.40							
71593	03/03/93	% SOLIDS	85.5	.1	84.7	.1	0.90							
71793	03/02/93	% SOLIDS	86.3	.1	88.2	.1	2.20							
71993	02/20/93	% SOLIDS	79.7	.1	82.9	.1	3.90							
72193	02/26/93	% SOLIDS	80.3	.1	82.3	.1	2.50							
72193	02/26/93	% SOLIDS	82.8	.1	83.4	.1	0.70	16	0	1.24	1.27	102.38		
70493	01/29/93	NITRATE	U	U	U	U	NC							
70493	01/30/93	NITRATE	U	U	U	U	NC							

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
70593	01/19/93	NITRATE		U			U		NC					
70593	01/22/93	NITRATE		U			U		NC					
70593	01/22/93	NITRATE		U			U		NC					
70993	02/03/93	NITRATE		U			U		NC					
71093	02/04/93	NITRATE		U			U		NC					
71193	02/11/93	NITRATE		U			U		NC					
71193	02/11/93	NITRATE		U			U		NC					
71393	02/23/93	NITRATE		U			U		NC					
71393	02/23/93	NITRATE		U			U		NC					
71593	03/03/93	NITRATE		U			U		NC					
71793	03/02/93	NITRATE		U			U		NC					
71993	02/20/93	NITRATE		U			U		NC	0				
70493	01/29/93	NITRATE/NITRITE		U			U		NC					
70493	01/30/93	NITRATE/NITRITE		U			U		NC					
70593	01/19/93	NITRATE/NITRITE		U			U		NC					
70593	01/22/93	NITRATE/NITRITE		U			U		NC					
70593	01/22/93	NITRATE/NITRITE		U			U		NC					
70993	02/03/93	NITRATE/NITRITE		U			U		NC					
71093	02/04/93	NITRATE/NITRITE		U			U		NC					
71193	02/11/93	NITRATE/NITRITE	500	U		1	U		NC					
71193	02/11/93	NITRATE/NITRITE		U			U		NC					
71393	02/23/93	NITRATE/NITRITE		U			U		NC					
71393	02/23/93	NITRATE/NITRITE		U			U		NC					
71593	03/03/93	NITRATE/NITRITE		U			U		NC					
71793	03/02/93	NITRATE/NITRITE		U			U		NC					
71993	02/20/93	NITRATE/NITRITE		U			U		NC					
72193	02/26/93	NITRATE/NITRITE		U			U		NC					
72193	02/26/93	NITRATE/NITRITE		U			U		NC	0				
72193	02/26/93	NITRATE/NITRITE		U			U		NC					
70493	01/29/93	pH	7.3		.2		7.4		.2	1.40				
70493	01/30/93	pH	6.7		.2		6.8		.2	1.50				
70593	01/19/93	pH	6.4		.2		6.6		.2	3.10				
70593	01/22/93	pH	7.8		.2		8.2		.2	5.00				
70593	01/22/93	pH	7.7		.2		7.7		.2	0.00				
70993	02/03/93	pH	7.6		.2		8		.2	5.00				
71093	02/04/93	pH	8.4		.2		8.1		.2	3.60				
71193	02/11/93	pH	7		.2		6.9		.2	1.00				
71193	02/11/93	pH	6.9		.2		7.4		.2	7.00				
71393	02/23/93	pH	7.2		.2		7		.2	3.00				
71393	02/23/93	pH	6.7		.2		6.7		.2	0.00				
71593	03/03/93	pH	8.1		.2		9.4		.2	14.90				
71793	03/02/93	pH	10.3		.2		9.8		.2	5.00				
71993	02/20/93	pH	9.6		.2		9.2		.2	4.30				
72193	02/26/93	pH	10.2		.2		11.3		.2	10.20				

Table J-4
Relative Percent Differences for Real/Duplicate Sample Pairs of Subsurface Geologic Materials

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
72193	02/26/93	pH	8.6	.2	8.3	.2	3.60	16	0	4.29	3.87	90.16		
70493	01/29/93	SULFIDE	25.2	U	25.2	27.9	U	27.9	0.00					
70493	01/30/93	SULFIDE	21.3	U	21.3	24.4	U	24.4	0.00					
70593	01/22/93	SULFIDE	28.7	U	28.7	28.9	U	28.9	0.00					
70593	01/22/93	SULFIDE	28.5	U	28.5	27.3	U	27.3	0.00					
70993	02/03/93	SULFIDE	26.1	U	26.1	29	U	29	0.00	5	0			
70493	01/29/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
70493	01/30/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
70593	01/19/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
70593	01/22/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
70593	01/22/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
70993	02/03/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
71093	02/04/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
71193	02/11/93	TOTAL ORGANIC CARBON	.05	UX	.05	500	U	.05	NC					
71193	02/11/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
71393	02/23/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
71393	02/23/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
71593	03/03/93	TOTAL ORGANIC CARBON	.05	XU	.05	.05	XU	.05	0.00					
71793	03/02/93	TOTAL ORGANIC CARBON	.05	UX	.05	.05	UX	.05	0.00					
71993	02/20/93	TOTAL ORGANIC CARBON	24000	X	.05	12000	X	.05	67.00					
72193	02/26/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00					
72193	02/26/93	TOTAL ORGANIC CARBON	500	U	.05	500	U	.05	0.00	15	1	4.47	17.30	387.30

Table J-5
Relative Percent Differences for Real/Duplicate Sample Pairs of Sediments

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SED70293	03/23/93	ALUMINUM	12300		7.7	8700		7.9	34.00	1	0			
SED70293	03/23/93	ARSENIC	2.7		.32	2.9		.34	7.10	1	0			
SED70293	03/23/93	BARIUM	174		1.6	158		1.6	10.00	1	0			
SED70293	03/23/93	BERYLLIUM	.81		.22	.87		.22	7.14	1	0			
SED70293	03/23/93	CADMIUM	.66	U	.66	.75		.67	12.77	1	0			
SED70293	03/23/93	CALCIUM	6290		7.5	5420		7.7	15.00	1	0			
SED70293	03/23/93	CESIUM	122	U	122	125	U	125	0.00	1	0			
SED70293	03/23/93	CHROMIUM	12.3		.64	8.8		.65	33.20	1	0			
SED70293	03/23/93	COBALT	5.7		.64	5.7		.65	0.00	1	0			
SED70293	03/23/93	COPPER	11.2		.71	11.1		.72	0.90	1	0			
SED70293	03/23/93	IRON	11600		1.8	8960		1.9	26.00	1	0			
SED70293	03/23/93	LEAD	21.6		2.5	21.7		2.7	0.50	1	0			
SED70293	03/23/93	LITHIUM	6.1		.83	4.2		.85	36.90	1	1			
SED70293	03/23/93	MAGNESIUM	2170		9.5	1750		9.7	21.00	1	0			
SED70293	03/23/93	MANGANESE	147		.59	142		.6	3.00	1	0			
SED70293	03/23/93	MERCURY	.11	U	.11	.11	U	.11	0.00	1	0			
SED70293	03/23/93	MOLYBDENUM	1.6	U	1.6	1.6	U	1.6	0.00	1	0			
SED70293	03/23/93	NICKEL	9.3		2.7	7.5		2.7	21.40	1	0			
SED70293	03/23/93	POTASSIUM	1350		190	1010		195	29.00	1	0			
SED70293	03/23/93	SELENIUM	.41		.3	.37		.32	10.26	1	0			
SED70293	03/23/93	SILICON	226		1.8	263		1.8	15.00	1	0			
SED70293	03/23/93	SILVER	.88		.38	1.3		.9	38.50	1	1			
SED70293	03/23/93	SODIUM	286		15	279		15.4	2.00	1	0			
SED70293	03/23/93	STRONTIUM	43.5		1.3	39.2		1.4	10.40	1	0			
SED70293	03/23/93	THALLIUM	.44	U	.44	.46	U	.46	0.00	1	0			
SED70293	03/23/93	TIN	5.3		4.1	4.2	U	4.2	23.20	1	0			
SED70293	03/23/93	VANADIUM	28.8		.78	22.2		.8	25.90	1	0			
SED70293	03/23/93	ZINC	49.2		.59	41.3		.6	17.50	1	0			
SED70293	03/23/93	AMERICIUM-241	.00452		.00417109	.005753		.00259444	24.00	1	0			
SED70293	03/23/93	CESIUM-137	.2863	X	0	.5151	X	0	57.10	1	1			
SED70293	03/23/93	GROSS ALPHA	15.85		3.10666	10.86		3.10411	37.36	1	1			
SED70293	03/23/93	GROSS BETA	27.76		1.90526	28.44		1.99071	2.42	1	0			
SED70293	03/23/93	PLUTONIUM-239/240	.007202	J	.0130573	.0275		.0116775	116.98	1	1			
SED70293	03/23/93	RADIUM-226	1.001	X	0	.8404	X	0	17.44	1	0			
SED70293	03/23/93	RADIUM-228	1.634	X	0	1.511	X	0	7.82	1	0			
SED70293	03/23/93	STRONTIUM-89,90	.163		.0565596	.2563		.0751967	44.50	1	1			
SED70293	03/23/93	URANIUM-233,-234	.9126		.0977679	.9605		.0545648	5.11	1	0			
SED70293	03/23/93	URANIUM-235	.05629		.0527412	.03151	J	.0545646	56.45	1	1			
SED70293	03/23/93	URANIUM-238	.8104		.0755938	.8274		.0639854	2.08	1	0			
SED70293	03/23/93	1,1,1-TRICHLOROETHANE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	1,1,2,2-TETRACHLOROETHANE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	1,1,2-TRICHLOROETHANE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	1,1-DICHLOROETHANE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	1,1-DICHLOROETHENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	1,2-DICHLOROETHANE	7	U	7	7	U	7	0.00	1	0			

Table J-5
Relative Percent Differences for Real/Duplicate Sample Pairs of Sediments

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SED70293	03/23/93	1,2-DICHLOROETHENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	1,2-DICHLOROPROPANE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	2-BUTANONE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	2-HEXANONE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	ACETONE	63		13	230		14	114.00	1	1			
SED70293	03/23/93	BENZENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	BROMODICHLOROMETHANE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	BROMOFORM	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	BROMOMETHANE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	CARBON DISULFIDE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	CARBON TETRACHLORIDE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	CHLOROBENZENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	CHLOROETHANE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	CHLOROFORM	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	CHLORMETHANE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	DIBROMOCHLOROMETHANE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	ETHYLBENZENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	METHYLENE CHLORIDE	7	U	7	8	U	7	0.00	1	0			
SED70293	03/23/93	STYRENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	TETRACHLOROETHENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	TOLUENE	440		33	350		34	23.00	1	0			
SED70293	03/23/93	TOTAL XYLEMES	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	TRICHLOROETHENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	VINYL ACETATE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	VINYL CHLORIDE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	cis-1,3-DICHLOROPROPENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	trans-1,3-DICHLOROPROPENE	7	U	7	7	U	7	0.00	1	0			
SED70293	03/23/93	1,2,4-TRICHLOROBENZENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	1,2-DICHLOROBENZENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	1,3-DICHLOROBENZENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	1,4-DICHLOROBENZENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2,4,5-TRICHLOROPHENOL	2200	U	2200	2200	U	2200	0.00	1	0			
SED70293	03/23/93	2,4,6-TRICHLOROPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2,4-DICHLOROPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2,4-DIMETHYLPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2,4-DINITROPHENOL	2200	U	2200	2200	U	2200	0.00	1	0			
SED70293	03/23/93	2,4-DINITROTOLUENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2,6-DINITROTOLUENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2-CHLORONAPHTHALENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2-CHLOROPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2-METHYLNAPHTHALENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2-METHYLPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	2-NITROANILINE	2200	U	2200	2200	U	2200	0.00	1	0			
SED70293	03/23/93	2-NITROPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	3,3'-DICHLOROBENZIDINE	900	U	900	890	U	890	0.00	1	0			

Table J-5
Relative Percent Differences for Real/Duplicate Sample Pairs of Sediments

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SED70293	03/23/93	3-NITROANILINE	2200	U	2200	2200	U	2200	0.00	1	0			
SED70293	03/23/93	4,6-DINITRO-2-METHYLPHENOL	2200	U	2200	2200	U	2200	0.00	1	0			
SED70293	03/23/93	4-BROMOPHENYL PHENYL ETHER	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	4-CHLORO-3-METHYLPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	4-CHLOROANILINE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	4-CHLOROPHENYL PHENYL ETHER	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	4-METHYL-2-PENTANONE	13	U	13	14	U	14	0.00	1	0			
SED70293	03/23/93	4-METHYLPHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	4-NITROANILINE	2200	U	2200	2200	U	2200	0.00	1	0			
SED70293	03/23/93	4-NITROPHENOL	2200	U	2200	2200	U	2200	0.00	1	0			
SED70293	03/23/93	ACENAPHTHENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	ACENAPHTHYLENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	ANTHRACENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BENZO(a)ANTHRACENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BENZO(a)PYRENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BENZO(b)FLUORANTHENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BENZO(ghi)PERYLENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BENZO(k)FLUORANTHENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BENZOIC ACID	260	J	2200	1300	J	2200	133.00	1	1			
SED70293	03/23/93	BENZYL ALCOHOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BIS(2-CHLOROETHOXY)METHANE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BIS(2-CHLOROETHYL)ETHER	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BIS(2-CHLOROISOPROPYL)ETHER	47	J	450	440	U	440	161.00	1	1			
SED70293	03/23/93	BIS(2-ETHYLHEXYL)PHTHALATE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	BUTYL BENZYL PHTHALATE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	CHRYSENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	DI-n-BUTYL PHTHALATE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	DI-n-OCTYL PHTHALATE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	DIBENZO(a,h)ANTHRACENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	DIBENZOFURAN	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	DIETHYL PHTHALATE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	DIMETHYL PHTHALATE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	FLUORANTHENE	79	J	450	440	U	440	139.00	1	1			
SED70293	03/23/93	FLUORENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	HEXACHLOROBENZENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	HEXACHLOROBUTADIENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	HEXACHLOROCYCLOPENTADIENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	HEXACHLOROETHANE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	INDENO(1,2,3-cd)PYRENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	ISOPHORONE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	N-NITROSO-DI-n-PROPYLAMINE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	N-NITROSODIPHENYLAMINE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	NAPHTHALENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	NITROBENZENE	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	PENTACHLOROPHENOL	2200	U	2200	2200	U	2200	0.00	1	0			

Table J-5
Relative Percent Differences for Real/Duplicate Sample Pairs of Sediments

LOCATION	SAMPLING DATE	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 35%	Avg	StDev	%CV
SED70293	03/23/93	PHENANTHRENE	73	J	450	440	U	440	143.00	1	1			
SED70293	03/23/93	PHENOL	450	U	450	440	U	440	0.00	1	0			
SED70293	03/23/93	PYRENE	74	J	450	440	U	440	142.00	1	1			
SED70293	03/23/93	% SOLIDS	75.8		.1	73.9		.1	2.50	1	0			
SED70293	03/23/93	NITRATE		U			U		NC	0				
SED70293	03/23/93	NITRATE/NITRITE		U			U		NC	0				
SED70293	03/23/93	TOTAL ORGANIC CARBON		X			X		NC	0				
SED70293	03/23/93	pH	6.7		.2	7		.2	4.00	1	0			

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
SW098	01/25/93	DISSOLVED	ALUMINUM	31.7	U	31.7	31.7	U	31.7	0.00					
SW098	02/26/93	DISSOLVED	ALUMINUM	31.7	U	31.7	31.7	U	31.7	0.00	2	0			
SW098	01/25/93	DISSOLVED	ANTIMONY	19.7	U	19.7	19.7	U	19.7	0.00					
SW098	02/26/93	DISSOLVED	ANTIMONY	31.1		19.7	19.7	U	19.7	44.90	2	1	22.45	31.75	141.42
SW098	01/25/93	DISSOLVED	ARSENIC	1.4	U	1.4	1.4	U	1.4	0.00					
SW098	02/26/93	DISSOLVED	ARSENIC	2		1.6	1.7		1.6	16.00	2	2	8.00	11.31	141.42
SW098	01/25/93	DISSOLVED	BARIUM	198		6.5	217		6.5	9.00					
SW098	02/26/93	DISSOLVED	BARIUM	173		6.5	198		6.5	13.00	2	0	11.00	2.83	25.71
SW098	01/25/93	DISSOLVED	BERYLLIUM	.9	U	.9	.9	U	.9	0.00					
SW098	02/26/93	DISSOLVED	BERYLLIUM	.9	U	.9	.9	U	.9	0.00	2	0			
SW098	01/25/93	DISSOLVED	CADMIUM	3.3		2.7	2.7	U	2.7	20.00					
SW098	02/26/93	DISSOLVED	CADMIUM	2.7	U	2.7	2.7	U	2.7	0.00	2	0	10.00	14.14	141.42
SW098	01/25/93	DISSOLVED	CALCIUM	54200		30.8	54600		30.8	1.00					
SW098	02/26/93	DISSOLVED	CALCIUM	45600		30.8	52300		30.8	14.00	2	0	7.50	9.19	122.57
SW098	01/25/93	DISSOLVED	CESIUM	500	U	500	500	U	500	0.00					
SW098	02/26/93	DISSOLVED	CESIUM	500	U	500	500	U	500	0.00	2	0			
SW098	01/25/93	DISSOLVED	CHROMIUM	2.6	U	2.6	2.6	U	2.6	0.00					
SW098	02/26/93	DISSOLVED	CHROMIUM	2.6	U	2.6	2.6	U	2.6	0.00	2	0			
SW098	01/25/93	DISSOLVED	COBALT	2.6	U	2.6	2.6	U	2.6	0.00					
SW098	02/26/93	DISSOLVED	COBALT	2.6	U	2.6	2.6	U	2.6	0.00	2	0			
SW098	01/25/93	DISSOLVED	COPPER	3		2.9	2.9		2.9	3.00					
SW098	02/26/93	DISSOLVED	COPPER	4.1		2.9	2.9	U	2.9	34.30	2	1	18.65	22.13	118.67
SW098	01/25/93	DISSOLVED	IRON	8.2		7.5	530		7.5	194.00					
SW098	02/26/93	DISSOLVED	IRON	51		7.5	38.6		7.5	28.00	2	2	111.00	117.38	105.75
SW098	01/25/93	DISSOLVED	LEAD	.9	U	.9	.9	U	.9	0.00					
SW098	02/26/93	DISSOLVED	LEAD	1.1		1	1.1		1	0.00	2	0			
SW098	01/25/93	DISSOLVED	LITHIUM	75.4		3.4	78.3		3.4	3.80					
SW098	02/26/93	DISSOLVED	LITHIUM	62.9		3.4	71.5		3.4	12.80	2	0	8.30	6.36	76.67
SW098	01/25/93	DISSOLVED	MAGNESIUM	41200		38.9	42100		38.9	2.00					
SW098	02/26/93	DISSOLVED	MAGNESIUM	35600		38.9	40100		38.9	12.00	2	0	7.00	7.07	101.02
SW098	01/25/93	DISSOLVED	MANGANESE	260		2.4	260		2.4	4.00					
SW098	02/26/93	DISSOLVED	MANGANESE	193		2.4	222		2.4	14.00	2	0	9.00	7.07	78.57
SW098	01/25/93	DISSOLVED	MERCURY	.2	U	.2	.2	U	.2	0.00					
SW098	02/26/93	DISSOLVED	MERCURY	.2	U	.2	.2	U	.2	0.00	2	0			
SW098	01/25/93	DISSOLVED	MOLYBDENUM	6.5	U	6.5	7.2		6.5	10.20					
SW098	02/26/93	DISSOLVED	MOLYBDENUM	6.5	U	6.5	6.5	U	6.5	0.00	2	0	5.10	7.21	141.42
SW098	01/25/93	DISSOLVED	NICKEL	24.6		11	11	U	11	76.00					
SW098	02/26/93	DISSOLVED	NICKEL	11	U	11	11	U	11	0.00	2	1	38.00	53.74	141.42
SW098	01/25/93	DISSOLVED	POTASSIUM	8720		779	9040		779	4.00					
SW098	02/26/93	DISSOLVED	POTASSIUM	7470		779	8000		779	7.00	2	0	5.50	2.12	38.57
SW098	01/25/93	DISSOLVED	SELENIUM	1.3	U	1.3	1.3	U	1.3	0.00					
SW098	02/26/93	DISSOLVED	SELENIUM	1.3	U	1.3	1.3	U	1.3	0.00	2	0			
SW098	01/25/93	DISSOLVED	SILICON	3420		7.3	3730		7.3	9.00					
SW098	02/26/93	DISSOLVED	SILICON	2850		7.3	3290		7.3	14.00	2	0	11.50	3.54	30.74
SW098	01/25/93	DISSOLVED	SILVER	3.6	U	3.6	3.6	U	3.6	0.00					
SW098	02/26/93	DISSOLVED	SILVER	3.6	U	3.6	3.6	U	3.6	0.00	2	0			
SW098	01/25/93	DISSOLVED	SODIUM	155000		61.6	164000		61.6	6.00					

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
SW098	02/26/93	DISSOLVED	SODIUM	142000		61.6	169000		61.6	11.00	2	0	8.50	3.54	41.59
SW098	01/25/93	DISSOLVED	STRONTIUM	560		5.5	601		5.5	7.00					
SW098	02/26/93	DISSOLVED	STRONTIUM	494		5.5	566		5.5	14.00	2	0	10.50	4.95	47.14
SW098	01/25/93	DISSOLVED	THALLIUM	1.5	U	1.5	1.5	U	1.5	0.00					
SW098	02/26/93	DISSOLVED	THALLIUM	1.9	U	1.9	1.9	U	1.9	0.00	2	0			
SW098	01/25/93	DISSOLVED	TIN	16.7	U	16.7	16.7	U	16.7	0.00					
SW098	02/26/93	DISSOLVED	TIN	16.7	U	16.7	16.7	U	16.7	0.00	2	0			
SW098	01/25/93	DISSOLVED	VANADIUM	3.2	U	3.2	3.2	U	3.2	0.00					
SW098	02/26/93	DISSOLVED	VANADIUM	3.2	U	3.2	3.2	U	3.2	0.00	2	0			
SW098	01/25/93	DISSOLVED	ZINC	2.4	U	2.4	5.1		2.4	72.00					
SW098	02/26/93	DISSOLVED	ZINC	5.4		2.4	4.2		2.4	25.00	2	2	48.50	33.23	68.52
SW098	01/25/93	DISSOLVED	AMERICIUM-241	.001067	J	0	.005779	J	0	137.66					
SW098	02/26/93	DISSOLVED	AMERICIUM-241	.0022	U	.004	.000233	J	.007	177.98	2	2	157.82	28.51	18.07
SW098	01/25/93	DISSOLVED	CESIUM-137	.0792	J	1	.06085	J	1	26.20					
SW098	02/26/93	DISSOLVED	CESIUM-137				.0319	J	.817	NC	1	1			
SW098	01/25/93	DISSOLVED	GROSS ALPHA	1.381	J	2.7	.6522	J	2.2	71.69					
SW098	02/26/93	DISSOLVED	GROSS ALPHA	4.2	UC	10.2	3.418		1.85	99.60	2	2	85.65	19.74	23.04
SW098	01/25/93	DISSOLVED	GROSS BETA	11.08		4.3	11.7		4.0	5.40					
SW098	02/26/93	DISSOLVED	GROSS BETA	14	C	7.7	10.55		2.8	28.00	2	1	16.70	15.98	95.69
SW098	01/25/93	DISSOLVED	PLUTONIUM-239/240	.001756	J	.006	0	J	0	200.00					
SW098	02/26/93	DISSOLVED	PLUTONIUM-239/240	0	U	.005	.0002254	J	.005	182.75	2	2	191.37	12.20	6.38
SW098	02/26/93	DISSOLVED	RADIUM-226	.25		.232				NC	0				
SW098	01/25/93	DISSOLVED	STRONTIUM-89,90	.899	J	.5	.7634	J	.7	16.31					
SW098	02/26/93	DISSOLVED	STRONTIUM-89,90	1		.635	1.14		.598227	13.00	2	0	14.66	2.34	15.99
SW098	02/26/93	DISSOLVED	TOTAL RADIOCESIUM	.784	U	.784				NC	0				
SW098	01/25/93	DISSOLVED	URANIUM-233,-234	1.418		0	.7894		.16	56.95					
SW098	02/26/93	DISSOLVED	URANIUM-233,-234	1		.1353	.9001		.329	11.00	2	1	33.98	32.49	95.64
SW098	01/25/93	DISSOLVED	URANIUM-235	.03403	J	.167	-.013	J	.113	447.27					
SW098	02/26/93	DISSOLVED	URANIUM-235	0	U	.14776	0	J	.192	200.00	2	2	323.63	174.84	54.03
SW098	01/25/93	DISSOLVED	URANIUM-238	1.168		.167	1.211		.227	3.62					
SW098	02/26/93	DISSOLVED	URANIUM-238	.72		.15733	1.238		.373	52.91	2	1	28.26	34.86	123.33
SW098	01/25/93	TOTAL	ALUMINUM	31.7	U	31.7	31.7	U	31.7	0.00					
SW098	02/26/93	TOTAL	ALUMINUM	41.3		31.7	31.7	U	31.7	26.30	2	1	13.15	18.60	141.42
SW098	01/25/93	TOTAL	ANTIMONY	19.7	U	19.7	19.7	U	19.7	0.00					
SW098	02/26/93	TOTAL	ANTIMONY	19.7	U	19.7	19.7	U	19.7	0.00	2	0			
SW098	01/25/93	TOTAL	ARSENIC	1.4	U	1.4	1.4	U	1.4	0.00					
SW098	02/26/93	TOTAL	ARSENIC	1.4	U	1.4	1.4	U	1.4	0.00	2	0			
SW098	01/25/93	TOTAL	BARIUM	215		6.5	198		6.5	8.00					
SW098	02/26/93	TOTAL	BARIUM	167		6.5	170		6.5	2.00	2	0	5.00	4.24	84.85
SW098	01/25/93	TOTAL	BERYLLIUM	.9	U	.9	.9	U	.9	0.00					
SW098	02/26/93	TOTAL	BERYLLIUM	.9	U	.9	.9	U	.9	0.00	2	0			
SW098	01/25/93	TOTAL	CADMUM	2.7	U	2.7	2.7	U	2.7	0.00					
SW098	02/26/93	TOTAL	CADMUM	2.7	U	2.7	2.7	U	2.7	0.00	2	0			
SW098	01/25/93	TOTAL	CALCIUM	53400		30.8	53600		30.8	0.00					
SW098	02/26/93	TOTAL	CALCIUM	41700		30.8	42600		30.8	2.00	2	0	1.00	1.41	141.42
SW098	01/25/93	TOTAL	CESIUM	500	U	500	500	U	500	0.00					
SW098	02/26/93	TOTAL	CESIUM	500	U	500	500	U	500	0.00	2	0			
SW098	01/25/93	TOTAL	CHROMIUM	2.6	U	2.6	2.6	U	2.6	0.00					

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV	
SW098	02/26/93	TOTAL	CHROMIUM	3.2		2.6	2.6	U	2.6	20.70	2	1	10.35	14.64	141.42	
SW098	01/25/93	TOTAL	COBALT	2.6	U	2.6	2.6	U	2.6	0.00						
SW098	02/26/93	TOTAL	COBALT	2.6	U	2.6	2.6	U	2.6	0.00	2	0				
SW098	01/25/93	TOTAL	COPPER	3.2		2.9	2.9	U	2.9	9.80						
SW098	02/26/93	TOTAL	COPPER	2.9	U	2.9	2.9	U	2.9	0.00	2	0	4.90	6.93	141.42	
SW098	01/25/93	TOTAL	IRON	520		7.5	14.9			7.5	189.00					
SW098	02/26/93	TOTAL	IRON	338		7.5	321			7.5	5.00	2	1	97.00	130.11	134.13
SW098	01/25/93	TOTAL	LEAD	.9	U	.9	.9	U	.9	0.00						
SW098	02/26/93	TOTAL	LEAD				1	U	1	NC	1	0				
SW098	01/25/93	TOTAL	LITHIUM	81.2		3.4	76.2			3.4	6.40					
SW098	02/26/93	TOTAL	LITHIUM	60.1		3.4	63.6			3.4	5.70	2	0	6.05	0.49	8.18
SW098	01/25/93	TOTAL	MAGNESIUM	41400		38.9	41100			38.9	1.00					
SW098	02/26/93	TOTAL	MAGNESIUM	33400		38.9	34300			38.9	3.00	2	0	2.00	1.41	70.71
SW098	01/25/93	TOTAL	MANGANESE	258		2.4	220			2.4	16.00					
SW098	02/26/93	TOTAL	MANGANESE	179		2.4	187			2.4	4.00	2	0	10.00	8.49	84.85
SW098	01/25/93	TOTAL	MERCURY	.2	U	.2	.2	U	.2	0.00						
SW098	02/26/93	TOTAL	MERCURY	.2	U	.2	.2	U	.2	0.00	2	0				
SW098	01/25/93	TOTAL	MOLYBDENUM	6.5	U	6.5	6.6			6.5	1.50					
SW098	02/26/93	TOTAL	MOLYBDENUM	6.5	U	6.5	6.5	U	6.5	0.00	2	0	0.75	1.06	141.42	
SW098	01/25/93	TOTAL	NICKEL	11	U	11	16.7			11	41.00					
SW098	02/26/93	TOTAL	NICKEL	11	U	11	11	U	11	0.00	2	1	20.50	28.99	141.42	
SW098	01/25/93	TOTAL	POTASSIUM	9130		779	8940			779	2.00					
SW098	02/26/93	TOTAL	POTASSIUM	8190		779	8470			779	3.00	2	0	2.50	0.71	28.28
SW098	01/25/93	TOTAL	SELENIUM	1.3	U	1.3	1.3	U	1.3	0.00						
SW098	02/26/93	TOTAL	SELENIUM	1.3	U	1.3	1.3	U	1.3	0.00	2	0				
SW098	01/25/93	TOTAL	SILICON	3560		7.3	3450			7.3	3.00					
SW098	02/26/93	TOTAL	SILICON	2770		7.3	2740			7.3	1.00	2	0	2.00	1.41	70.71
SW098	01/25/93	TOTAL	SILVER	3.6	U	3.6	3.6	U	3.6	0.00						
SW098	02/26/93	TOTAL	SILVER	3.6	U	3.6	3.6	U	3.6	0.00	2	0				
SW098	01/25/93	TOTAL	SODIUM	164000		61.6	155000			61.6	6.00					
SW098	02/26/93	TOTAL	SODIUM	134000		61.6	138000			61.6	3.00	2	0	4.50	2.12	47.14
SW098	01/25/93	TOTAL	STRONTIUM	594		5.5	566			5.5	5.00					
SW098	02/26/93	TOTAL	STRONTIUM	469		5.5	488			5.5	4.00	2	0	4.50	0.71	15.71
SW098	01/25/93	TOTAL	THALLIUM				1.5	U	1.5	NC						
SW098	02/26/93	TOTAL	THALLIUM	1.6	U	1.6	1.6	U	1.6	0.00	1	0				
SW098	01/25/93	TOTAL	TIN	16.7	U	16.7	16.7	U	16.7	0.00						
SW098	02/26/93	TOTAL	TIN	17.9		16.7	16.7	U	16.7	6.90	2	0	3.45	4.88	141.42	
SW098	01/25/93	TOTAL	VANADIUM	3.2	U	3.2	3.2	U	3.2	0.00						
SW098	02/26/93	TOTAL	VANADIUM	3.2	U	3.2	3.2	U	3.2	0.00	2	0				
SW098	01/25/93	TOTAL	ZINC	7.2		2.4	2.4	U	2.4	100.00						
SW098	02/26/93	TOTAL	ZINC	6.6		2.4	2.8	U	2.4	80.90	2	2	90.45	13.51	14.93	
SW098	01/25/93	TOTAL	AMERICIUM-241	.002798	J	0	.001163	J	0	82.55						
SW098	02/26/93	TOTAL	AMERICIUM-241	.0027	U	.00395	.0007794	J	.007	134.08	2	2	108.32	36.43	33.64	
SW098	01/25/93	TOTAL	CESIUM-137	-0.789	J	1	.3976	J	1	299.03						
SW098	02/26/93	TOTAL	CESIUM-137				.2176	J	.965	NC	1	1				
SW098	01/25/93	TOTAL	GROSS ALPHA	1.25	J	2.6	1.775	J	2.4	34.71						
SW098	02/26/93	TOTAL	GROSS ALPHA	.23	UC	8.68	1.972	J	2.24	125.95	2	2	80.33	64.52	80.31	
SW098	01/25/93	TOTAL	GROSS BETA	8.513		4.0	13.64		3.7	46.29						

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV	
SW098	02/26/93	TOTAL	GROSS-BETA	10	C	6.77	11.29		2.78	12.00	2	1	29.15	24.25	83.19	
SW098	01/25/93	TOTAL	PLUTONIUM-239/240	.000364	J	0	0	J	0	200.00						
SW098	02/26/93	TOTAL	PLUTONIUM-239/240	.0032	U	.00472	.001781	J	.006	90.42	2	2	145.21	77.49	53.36	
SW098	02/26/93	TOTAL	RADIUM-226	.23		.211				NC	0					
SW098	01/25/93	TOTAL	STRONTIUM-89,90	1.6		.6	.8485	J	.7	61.40						
SW098	02/26/93	TOTAL	STRONTIUM-89,90	1.6		.796	1.094			.578997	37.60	2	2	49.50	16.83	34.00
SW098	02/26/93	TOTAL	TOTAL RADIOCESIUM	.924	U	.924				NC	0					
SW098	01/25/93	TOTAL	TRITIUM	257.8	J	460	94.62	J	460	92.60						
SW098	02/26/93	TOTAL	TRITIUM	102	U	209.5	26.16	J	263.5	155.60	2	2	124.10	44.55	35.90	
SW098	01/25/93	TOTAL	URANIUM-233,-234	.7626		0	1.067			0	33.28					
SW098	02/26/93	TOTAL	URANIUM-233,-234	1.3		.18634	1.007			.337	25.40	2	2	29.34	5.57	18.98
SW098	01/25/93	TOTAL	URANIUM-235	.1525	J	0	.1143	J	0	28.64						
SW098	02/26/93	TOTAL	URANIUM-235	.3		.15244	.02576	J	.308	168.40	2	2	98.52	98.83	100.32	
SW098	01/25/93	TOTAL	URANIUM-238	.6996		.106	1.007			0	36.03					
SW098	02/26/93	TOTAL	URANIUM-238	1.2		.15244	.7233			.318	49.60	2	2	42.81	9.60	22.42
SW098	01/26/93	TOTAL	1,1,1-TRICHLOROETHANE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,1,1-TRICHLOROETHANE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	1,1,2,2-TETRACHLOROETHANE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,1,2,2-TETRACHLOROETHANE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	1,1,2-TRICHLOROETHANE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,1,2-TRICHLOROETHANE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	1,1-DICHLOROETHANE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,1-DICHLOROETHANE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	1,1-DICHLOROETHENE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,1-DICHLOROETHENE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	1,2-DICHLOROETHENE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,2-DICHLOROETHENE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	1,2-DICHLOROPROPANE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	1,2-DICHLOROPROPANE	5	U	5	5	U	5	0.00	2	0				
SW098	01/26/93	TOTAL	2-BUTANONE	10	U	10	10	U	10	0.00						
SW098	02/26/93	TOTAL	2-BUTANONE	10	U	10	10	U	10	0.00	2	0				
SW098	01/25/93	TOTAL	2-HEXANONE	10	U	10	10	U	10	0.00						
SW098	02/26/93	TOTAL	2-HEXANONE	10	U	10	10	U	10	0.00	2	0				
SW098	01/25/93	TOTAL	4-METHYL-2-PENTANONE	10	U	10	10	U	10	0.00						
SW098	02/26/93	TOTAL	4-METHYL-2-PENTANONE	10	U	10	10	U	10	0.00	2	0				
SW098	01/25/93	TOTAL	ACETONE	14	U	10	10	U	10	0.00						
SW098	02/26/93	TOTAL	ACETONE	10	U	10	10	U	10	0.00	2	0				
SW098	01/25/93	TOTAL	BENZENE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	BENZENE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	BROMODICHLOROMETHANE	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	BROMODICHLOROMETHANE	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	BROMOFORM	5	U	5	5	U	5	0.00						
SW098	02/26/93	TOTAL	BROMOFORM	5	U	5	5	U	5	0.00	2	0				
SW098	01/25/93	TOTAL	BROMOMETHANE	10	U	10	10	U	10	0.00						
SW098	02/26/93	TOTAL	BROMOMETHANE	10	U	10	10	U	10	0.00	2	0				
SW098	01/25/93	TOTAL	CARBON DISULFIDE	5	U	5	5	U	5	0.00						

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
SW098	02/26/93	TOTAL	CARBON DISULFIDE	5	U	5	5	U	5	0.00	2	0			
SW098	01/26/93	TOTAL	CARBON TETRACHLORIDE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	CARBON TETRACHLORIDE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	CHLOROBENZENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	CHLOROBENZENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	CHLOROETHANE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	CHLOROETHANE	10	U	10	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	CHLOROFORM	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	CHLOROFORM	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	CHLORMETHANE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	CHLORMETHANE	10	U	10	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	cis-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	cis-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	DIBROMOCHLOROMETHANE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	DIBROMOCHLOROMETHANE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	ETHYLBENZENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	ETHYLBENZENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	METHYLENE CHLORIDE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	METHYLENE CHLORIDE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	STYRENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	STYRENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	TETRACHLOROETHENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	TETRACHLOROETHENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	TOLUENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	TOLUENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	TOTAL XYLEMES	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	TOTAL XYLEMES	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	trans-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	trans-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	TRICHLOROETHENE	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	TRICHLOROETHENE	5	U	5	5	U	5	0.00	2	0			
SW098	01/25/93	TOTAL	VINYL ACETATE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	VINYL ACETATE	10	U	10	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	VINYL CHLORIDE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	VINYL CHLORIDE	10	U	10	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	1,2,4-TRICHLOROBENZENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	1,2,4-TRICHLOROBENZENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	1,2-DICHLOROBENZENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	1,2-DICHLOROBENZENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	1,3-DICHLOROBENZENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	1,3-DICHLOROBENZENE	11	U	11	10	U	10	0.00					
SW098	01/25/93	TOTAL	1,4-DICHLOROBENZENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	1,4-DICHLOROBENZENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	1,4-DICHLOROBENZENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	2,4,5-TRICHLOROPHENOL	50	U	50	50	U	50	0.00					
SW098	02/26/93	TOTAL	2,4,5-TRICHLOROPHENOL	55	U	55	52	U	50	0.00	2	0			
SW098	01/25/93	TOTAL	2,4,6-TRICHLOROPHENOL	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	2,4,6-TRICHLOROPHENOL	11	U	11	10	U	10	0.00	2	0			

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL DISSOLVED	ANALYTE	REAL RESULT	REAL DL	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
SW098	01/26/93	TOTAL	2,4-DICHLOROPHENOL	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2,4-DICHLOROPHENOL	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2,4-DIMETHYLPHENOL	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2,4-DIMETHYLPHENOL	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2,4-DINITROPHENOL	50	50	50	50	0.00	2	0			
SW098	02/26/93	TOTAL	2,4-DINITROPHENOL	56	56	52	52	0.00	2	0			
SW098	01/26/93	TOTAL	2,4-DINITROTOLUENE	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2,4-DINITROTOLUENE	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2,6-DINITROTOLUENE	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2,6-DINITROTOLUENE	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2,CHLORONAPHTHALENE	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2,CHLORONAPHTHALENE	10	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2-CHLOROPHENOL	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2-CHLOROPHENOL	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2-NITROANILINE	50	50	50	50	0.00	2	0			
SW098	02/26/93	TOTAL	2-NITROANILINE	55	55	52	50	0.00	2	0			
SW098	01/26/93	TOTAL	2-METHYLNAPHTHALENE	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2-METHYLNAPHTHALENE	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2-METHYLPHENOL	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2-METHYLPHENOL	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	2-NITROANILINE	50	50	50	50	0.00	2	0			
SW098	02/26/93	TOTAL	2-NITROANILINE	55	55	52	50	0.00	2	0			
SW098	01/26/93	TOTAL	2-NITROPHENOL	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	2-NITROPHENOL	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	3,3'-DICHLOROBENZIDINE	20	20	20	20	0.00	2	0			
SW098	02/26/93	TOTAL	3,3'-DICHLOROBENZIDINE	22	22	21	20	0.00	2	0			
SW098	01/25/93	TOTAL	3-NITROANILINE	50	50	50	50	0.00	2	0			
SW098	02/26/93	TOTAL	3-NITROANILINE	55	55	52	50	0.00	2	0			
SW098	01/26/93	TOTAL	4,6-DINITRO-2-METHYLPHENOL	50	50	50	50	0.00	2	0			
SW098	02/26/93	TOTAL	4,6-DINITRO-2-METHYLPHENOL	55	55	52	50	0.00	2	0			
SW098	01/25/93	TOTAL	4-BROMOPHENYL PHENYL ETHER	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	4-BROMOPHENYL PHENYL ETHER	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	4-CHLORO-3-METHYLPHENOL	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	4-CHLORO-3-METHYLPHENOL	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	4-CHLOROPHENYL PHENYL ETHER	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	4-CHLOROPHENYL PHENYL ETHER	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	4-METHYLPHENOL	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	4-METHYLPHENOL	11	11	10	10	0.00	2	0			
SW098	01/25/93	TOTAL	4-NITROANILINE	50	50	50	50	0.00	2	0			
SW098	02/26/93	TOTAL	4-NITROANILINE	55	55	52	50	0.00	2	0			
SW098	01/26/93	TOTAL	4-NITROPHENOL	50	50	50	50	0.00	2	0			
SW098	02/26/93	TOTAL	4-NITROPHENOL	55	55	52	50	0.00	2	0			
SW098	01/26/93	TOTAL	ACENAPHTHENE	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	ACENAPHTHENE	11	11	10	10	0.00	2	0			
SW098	01/26/93	TOTAL	ACENAPHTHYLENE	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	ACENAPHTHYLENE	11	11	10	10	0.00	2	0			
SW098	01/25/93	TOTAL	ANTHRACENE	10	10	10	10	0.00	2	0			
SW098	02/26/93	TOTAL	ANTHRACENE	11	11	10	10	0.00	2	0			

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
SW098	01/26/93	TOTAL	BENZO(a)ANTHRACENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BENZO(a)ANTHRACENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BENZO(a)PYRENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BENZO(a)PYRENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BENZO(b)FLUORANTHENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BENZO(b)FLUORANTHENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BENZO(ghi)PERYLENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BENZO(ghi)PERYLENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BENZO(k)FLUORANTHENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BENZO(k)FLUORANTHENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BENZOIC ACID	50	U	50	50	U	50	0.00					
SW098	02/26/93	TOTAL	BENZOIC ACID	55	U	55	52	U	50	0.00	2	0			
SW098	01/26/93	TOTAL	BENZYL ALCOHOL	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BENZYL ALCOHOL	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BIS(2-CHLOROETHOXY)METHANE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BIS(2-CHLOROETHOXY)METHANE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BIS(2-CHLOROETHYL)ETHER	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BIS(2-CHLOROETHYL)ETHER	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BIS(2-CHLOROISOPROPYL)ETHER	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BIS(2-CHLOROISOPROPYL)ETHER	11	U	11	10	U	10	0.00					
SW098	01/26/93	TOTAL	BIS(2-CHLOROISOPROPYL)PHTHALATE	1	J	10	4	J	10	120.00					
SW098	02/26/93	TOTAL	BIS(2-ETHYLHEXYL)PHTHALATE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	BUTYL BENZYL PHTHALATE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	BUTYL BENZYL PHTHALATE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	CHRYSENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	CHRYSENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	DI-n-BUTYL PHTHALATE	1	J	10	10	U	10	164.00					
SW098	02/26/93	TOTAL	DI-n-BUTYL PHTHALATE	11	U	11	10	U	10	0.00	2	1	82.00	115.97	141.42
SW098	01/26/93	TOTAL	DI-n-OCTYL PHTHALATE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	DI-n-OCTYL PHTHALATE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	DIBENZO(a,h)ANTHRACENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	DIBENZO(a,h)ANTHRACENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	DIBENZOFURAN	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	DIBENZOFURAN	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	DIETHYL PHTHALATE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	DIETHYL PHTHALATE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	DIMETHYL PHTHALATE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	DIMETHYL PHTHALATE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	FLUORANTHENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	FLUORANTHENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	FLUORENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	FLUORENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	HEXAACHROBENZENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	HEXAACHROBENZENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	HEXAACHROBUTADIENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	HEXAACHROBUTADIENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/26/93	TOTAL	HEXAACHROCYCLOPENTADIENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	HEXAACHROCYCLOPENTADIENE	11	U	11	10	U	10	0.00	2	0			

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
SW098	01/25/93	TOTAL	HEXACHLOROETHANE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	HEXACHLOROETHANE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	INDENO(1,2,3-cd)PYRENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	INDENO(1,2,3-cd)PYRENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	ISOPHORONE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	ISOPHORONE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	N-NITROSO-DI-n-PROPYLAMINE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	N-NITROSO-DI-n-PROPYLAMINE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	N-NITROSODIPHENYLAMINE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	N-NITROSODIPHENYLAMINE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	NAPHTHALENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	NAPHTHALENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	NITROBENZENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	NITROBENZENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	PENTACHLOROPHENOL	50	U	50	50	U	50	0.00					
SW098	02/26/93	TOTAL	PENTACHLOROPHENOL	55	U	55	52	U	50	0.00	2	0			
SW098	01/25/93	TOTAL	PHENANTHRENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	PHENANTHRENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	PHENOL	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	PHENOL	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	PYRENE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	PYRENE	11	U	11	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	4,4'-DDD	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	4,4'-DDE	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	4,4'-DDT	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	ALDRIN	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	alpha-BHC	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	alpha-CHLORDANE	.54	U	.54	.48	U	.48	0.00	1	0			
SW098	01/25/93	TOTAL	AROCLO-1016	.54	U	.54	.48	U	.48	0.00	1	0			
SW098	01/25/93	TOTAL	AROCLO-1221	.54	U	.54	.48	U	.48	0.00	1	0			
SW098	01/25/93	TOTAL	AROCLO-1232	.54	U	.54	.48	U	.48	0.00	1	0			
SW098	01/25/93	TOTAL	AROCLO-1242	.54	U	.54	.48	U	.48	0.00	1	0			
SW098	01/25/93	TOTAL	AROCLO-1248	.54	U	.54	.48	U	.48	0.00	1	0			
SW098	01/25/93	TOTAL	AROCLO-1254	1.1	U	1.1	.96	U	.96	0.00	1	0			
SW098	01/25/93	TOTAL	AROCLO-1260	1.1	U	1.1	.96	U	.96	0.00	1	0			
SW098	01/25/93	TOTAL	beta-BHC	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	delta-BHC	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	DIELDRIN	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	ENDOSULFAN I	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	ENDOSULFAN II	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	ENDOSULFAN SULFATE	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	ENDRIN	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	ENDRIN KETONE	.11	U	.11	.096	U	.096	0.00	1	0			
SW098	01/25/93	TOTAL	gamma-BHC (LINDANE)	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	gamma-CHLORDANE	.54	U	.54	.48	U	.48	0.00	1	0			
SW098	01/25/93	TOTAL	HEPTACHLOR	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	HEPTACHLOR EPOXIDE	.054	U	.054	.048	U	.048	0.00	1	0			
SW098	01/25/93	TOTAL	METHOXYCHLOR	.54	U	.54	.48	U	.48	0.00	1	0			

Table J-6
Relative Percent Differences for Real/Duplicate Sample Pairs of Surface Water

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
SW098	01/25/93	TOTAL	TOXAPHENE	1.1	U	1.1	.96	U	.96	0.00	1	0			
SW098	01/26/93	TOTAL	BICARBONATE AS CACO3	489		10	488		10	0.00					
SW098	02/26/93	TOTAL	BICARBONATE AS CACO3	383		10	397		10	4.00	2	0	2.00	2.83	141.42
SW098	01/25/93	TOTAL	CARBONATE	10	U	10	10	U	10	0.00					
SW098	02/26/93	TOTAL	CARBONATE	10	U	10	10	U	10	0.00	2	0			
SW098	01/25/93	TOTAL	CHLORIDE	173		6.2	164		6.2	5.00					
SW098	02/26/93	TOTAL	CHLORIDE	137		12.5	141		6.2	3.00	2	0	4.00	1.41	35.36
SW098	01/25/93	TOTAL	CYANIDE	10	U	10	20	U	20	0.00	1	0			
SW098	01/25/93	TOTAL	FLUORIDE	.82		.2	.81		.2	1.23					
SW098	02/26/93	TOTAL	FLUORIDE	.72		.2	.68		.2	5.71	2	0	3.47	3.17	91.29
SW098	01/25/93	TOTAL	NITRATE	.1	U	.1	.42		.1	123.10					
SW098	02/26/93	TOTAL	NITRATE	.2		.1	.21		.1	4.90	2	1	64.00	83.58	130.59
SW098	01/25/93	TOTAL	SULFATE	11.3		.5	11.4		.5	0.90					
SW098	02/26/93	TOTAL	SULFATE	11.3		.5	11.3		.5	0.00	2	0	0.45	0.64	141.42
SW098	01/25/93	TOTAL	SULFIDE	1	U	1	1	U	1	0.00	1	0			
SW098	01/25/93	TOTAL	TOTAL DISSOLVED SOLIDS	750		10	610		10	21.00					
SW098	02/26/93	TOTAL	TOTAL DISSOLVED SOLIDS	570		10	660		10	15.00	2	1	18.00	4.24	23.57
SW098	01/25/93	TOTAL	TOTAL SUSPENDED SOLIDS	5	U	5	5	U	5	0.00					
SW098	02/26/93	TOTAL	TOTAL SUSPENDED SOLIDS	5	U	5	5	U	5	0.00	2	0			

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
70093	03/25/93	DISSOLVED	ALUMINUM	95.9		31.7	31.7	U	31.7	100.60					
71893	03/29/93	DISSOLVED	ALUMINUM	35.4		31.7	31.7	U	31.7	11.00					
71893	04/26/93	DISSOLVED	ALUMINUM	24	U	18	24	U	18	0.00	3	1	37.20	55.18	148.34
70093	03/25/93	DISSOLVED	ANTIMONY	19.7	U	19.7	19.7	U	19.7	0.00					
71893	03/29/93	DISSOLVED	ANTIMONY	19.7		19.7	19.7	U	19.7	0.00					
71893	04/26/93	DISSOLVED	ANTIMONY	27	U	17	27	U	17	0.00	3	0			
70093	03/25/93	DISSOLVED	ARSENIC	1.4	U	1.4	1.4	U	1.4	0.00					
71893	03/29/93	DISSOLVED	ARSENIC	1.4	U	1.4	1.4	U	1.4	0.00					
71893	04/26/93	DISSOLVED	ARSENIC	3	U	2	3	U	2	0.00	3	0			
70093	03/25/93	DISSOLVED	BARIUM	58.9		6.5	58		6.5	2.00					
71893	03/29/93	DISSOLVED	BARIUM	97.8		6.5	93.5		6.5	4.50					
71893	04/26/93	DISSOLVED	BARIUM	140		17	135		17	4.00	3	0	3.50	1.32	37.80
70093	03/25/93	DISSOLVED	BERYLLIUM	.9	U	.9	.9	U	.9	0.00					
71893	03/29/93	DISSOLVED	BERYLLIUM	.9	U	.9	.9	U	.9	0.00					
71893	04/26/93	DISSOLVED	BERYLLIUM	1	U	1	1	U	1	0.00	3	0			
70093	03/25/93	DISSOLVED	CADMUM	2.7	U	2.7	2.7	U	2.7	0.00					
71893	03/29/93	DISSOLVED	CADMUM	2.7	U	2.7	2.7	U	2.7	0.00					
71893	04/26/93	DISSOLVED	CADMUM	2	U	2	2	U	2	0.00	3	0			
70093	03/25/93	DISSOLVED	CALCIUM	18700		30.8	18200		30.8	3.00					
71893	03/29/93	DISSOLVED	CALCIUM	29300		30.8	28600		30.8	2.00					
71893	04/26/93	DISSOLVED	CALCIUM	46400	E	149	45400	E	149	2.00	3	0	2.33	0.58	24.74
70093	03/25/93	DISSOLVED	CESIUM	500	U	500	500	U	500	0.00					
71893	03/29/93	DISSOLVED	CESIUM	500	U	500	500	U	500	0.00					
71893	04/26/93	DISSOLVED	CESIUM	33	U	617	33	U	617	0.00	3	0			
70093	03/25/93	DISSOLVED	CHROMIUM	2.6	U	2.6	2.6	U	2.6	0.00					
71893	03/29/93	DISSOLVED	CHROMIUM	2.6	U	2.6	2.6	U	2.6	0.00					
71893	04/26/93	DISSOLVED	CHROMIUM	4	U	5	4	U	5	0.00	3	0			
70093	03/25/93	DISSOLVED	COBALT	3.2		2.6	2.6		2.6	20.70					
71893	03/29/93	DISSOLVED	COBALT	2.8		2.6	2.6		2.6	7.40					
71893	04/26/93	DISSOLVED	COBALT	6	U	4	6	U	4	0.00	3	1	9.37	10.49	111.98
70093	03/25/93	DISSOLVED	COPPER	2.9	U	2.9	2.9	U	2.9	0.00					
71893	03/29/93	DISSOLVED	COPPER	2.9	U	2.9	2.9	U	2.9	0.00					
71893	04/26/93	DISSOLVED	COPPER	4.9		2	4	U	2	84.00	3	1	28.00	48.50	173.21
70093	03/25/93	DISSOLVED	IRON	135		7.5	10.9		7.5	170.00					
71893	03/29/93	DISSOLVED	IRON	164		7.5	48.1		7.5	109.00					
71893	04/26/93	DISSOLVED	IRON	5	U	5	5	U	5	0.00	3	2	93.00	86.12	92.60
70093	03/25/93	DISSOLVED	LEAD	1	U	1	1	U	1	0.00					
71893	03/29/93	DISSOLVED	LEAD	4		1	1	U	1	120.00					
71893	04/26/93	DISSOLVED	LEAD	2	U	1	2	U	1	0.00	3	1	40.00	69.28	173.21
70093	03/25/93	DISSOLVED	LITHIUM	5.7		3.4	6.5		3.4	13.10					
71893	03/29/93	DISSOLVED	LITHIUM	7.4		3.4	8.2		3.4	10.30					
71893	04/26/93	DISSOLVED	LITHIUM	30	U	2	30	U	2	0.00	3	0	7.80	6.90	88.44
70093	03/25/93	DISSOLVED	MAGNESIUM	3510		38.9	3380		38.9	4.00					
71893	03/29/93	DISSOLVED	MAGNESIUM	5280		38.9	5160		38.9	2.00					
71893	04/26/93	DISSOLVED	MAGNESIUM	7620		249	7530		249	1.00	3	0	2.33	1.53	65.47
70093	03/25/93	DISSOLVED	MANGANESE	171		2.4	144		2.4	17.00					
71893	03/29/93	DISSOLVED	MANGANESE	178		2.4	108		2.4	49.00					
71893	04/26/93	DISSOLVED	MANGANESE	210		1	190		1	10.00	3	1	25.33	20.79	82.08

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
70093	03/25/93	DISSOLVED	MERCURY	.2	U	.2	2	U	.2	0.00					
71893	03/29/93	DISSOLVED	MERCURY	.2	U	.2	.2	U	.2	0.00					
71893	04/26/93	DISSOLVED	MERCURY	.2	U	.2	.2	U	.2	0.00	3	0			
70093	03/25/93	DISSOLVED	MOLYBDENUM	6.5	U	6.5	6.5	U	6.5	0.00					
71893	03/29/93	DISSOLVED	MOLYBDENUM	6.5	U	6.5	6.5	U	6.5	0.00					
71893	04/26/93	DISSOLVED	MOLYBDENUM	11	U	7	11	U	7	0.00	3	0			
70093	03/25/93	DISSOLVED	NICKEL	11	U	11	11	U	11	0.00					
71893	03/29/93	DISSOLVED	NICKEL	11	U	11	11	U	11	0.00					
71893	04/26/93	DISSOLVED	NICKEL	11	U	11	11	U	11	0.00	3	0			
70093	03/25/93	DISSOLVED	POTASSIUM	779	U	779	1020		779	27.00					
71893	03/29/93	DISSOLVED	POTASSIUM	1430		779	1520		779	6.00					
71893	04/26/93	DISSOLVED	POTASSIUM	1900		776	1320		776	36.00	3	2	23.00	15.39	66.93
70093	03/25/93	DISSOLVED	SELENIUM	1.3	U	1.3	1.3	U	1.3	0.00					
71893	03/29/93	DISSOLVED	SELENIUM	1.3	U	1.3	1.3	U	1.3	0.00					
71893	04/26/93	DISSOLVED	SELENIUM	3	UN	2	3	UN	2	0.00	3	0			
70093	03/25/93	DISSOLVED	SILICON	10300		7.3	9760		7.3	5.00					
71893	03/29/93	DISSOLVED	SILICON	9530		7.3	10100		7.3	6.00					
71893	04/26/93	DISSOLVED	SILICON	11700		25	11200		25	4.00	3	0	5.00	1.00	20.00
70093	03/25/93	DISSOLVED	SILVER	3.6	U	3.6	3.6	U	3.6	0.00					
71893	03/29/93	DISSOLVED	SILVER	3.6	U	3.6	3.6	U	3.6	0.00					
71893	04/26/93	DISSOLVED	SILVER	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	DISSOLVED	SODIUM	8310		61.6	8180		61.6	2.00					
71893	03/29/93	DISSOLVED	SODIUM	9340		61.6	9830		61.6	5.00					
71893	04/26/93	DISSOLVED	SODIUM	10800		584	11000		584	2.00	3	0	3.00	1.73	57.74
70093	03/25/93	DISSOLVED	STRONTIUM	130		5.5	121		5.5	7.00					
71893	03/29/93	DISSOLVED	STRONTIUM	161		5.5	160		5.5	1.00					
71893	04/26/93	DISSOLVED	STRONTIUM	225		1	222		1	1.00	3	0	3.00	3.46	115.47
70093	03/25/93	DISSOLVED	THALLIUM	1.7	U	1.7	1.7	U	1.7	0.00					
71893	03/29/93	DISSOLVED	THALLIUM	1.7	U	1.7	1.7	U	1.7	0.00					
71893	04/26/93	DISSOLVED	THALLIUM	3	U	2	3	U	2	0.00	3	0			
70093	03/25/93	DISSOLVED	TIN	16.7	U	16.7	16.7	U	16.7	0.00					
71893	03/29/93	DISSOLVED	TIN	16.7	U	16.7	16.7	U	16.7	0.00					
71893	04/26/93	DISSOLVED	TIN	29	U	18	29	U	18	0.00	3	0			
70093	03/25/93	DISSOLVED	VANADIUM	3.2	U	3.2	3.2	U	3.2	0.00					
71893	03/29/93	DISSOLVED	VANADIUM	3.2	U	3.2	3.2	U	3.2	0.00					
71893	04/26/93	DISSOLVED	VANADIUM	4	U	3	4	U	3	0.00	3	0			
70093	03/25/93	DISSOLVED	ZINC	6.9		2.4	5.9		2.4	15.60					
71893	03/29/93	DISSOLVED	ZINC	8.3		2.4	11.5		2.4	32.30					
71893	04/26/93	DISSOLVED	ZINC	5.8		3	5.6		3	3.60	3	1	17.13	14.46	84.40
70093	03/25/93	DISSOLVED	AMERICIUM-241	.003423	J	.005	.00133	J	.004	88.07					
71893	03/29/93	DISSOLVED	AMERICIUM-241				.002993	J	.006	NC					
71893	04/26/93	DISSOLVED	AMERICIUM-241	-0.002		0.01	0.0029		0.01	#####	2	2	588.48	707.69	120.26
71893	04/26/93	DISSOLVED	CESIUM-134	.75		1.93	.32		1.93	80.37	1	1			
70093	03/25/93	DISSOLVED	CESIUM-137	.4747	J	.911	-.034	J	.977	230.86					
71893	03/29/93	DISSOLVED	CESIUM-137	.26		2.44	0		2.44	200.00	2	2	215.43	21.82	10.13
70093	03/25/93	DISSOLVED	GROSS ALPHA	.2936	J	.491899	.353	J	.49877	18.37					
71893	03/29/93	DISSOLVED	GROSS ALPHA	1.608		.542034				NC					

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N >	20%	Avg	StDev	%CV	
71893	04/26/93	DISSOLVED	GROSS ALPHA	7.27		6.41	4.28		6.23	51.77	2	1		35.07	23.62	67.33	
70093	03/25/93	DISSOLVED	GROSS BETA	1.88		1.21026	1.956		1.19616	3.96							
71893	03/29/93	DISSOLVED	GROSS BETA	2.51		1.22633				NC							
71893	04/26/93	DISSOLVED	GROSS BETA	0		3.46	2.62		3.46	200.00	2	1		101.98	138.62	135.93	
70093	03/25/93	DISSOLVED	PLUTONIUM-239/240	.003757	J	.013	-.000875	J	.009	321.44							
71893	03/29/93	DISSOLVED	PLUTONIUM-239/240	0	J	.003	.001635	J	.006	200.00							
71893	04/26/93	DISSOLVED	PLUTONIUM-239/240	0.0053		0.01	0.0007		0.01	153.33	3	3		224.93	86.78	38.58	
71893	03/29/93	DISSOLVED	STRONTIUM-89,90	-.065	J	.921115	.02739	J	.79194	491.31							
71893	04/26/93	DISSOLVED	STRONTIUM-89,90	0		2.8676	0		2.0326	NC	1	1					
70093	03/25/93	DISSOLVED	URANIUM-233,-234	.09213	J	.176	-.0543	J	.391	774.15							
71893	03/29/93	DISSOLVED	URANIUM-233,-234	.02719	J	.265				NC							
71893	04/26/93	DISSOLVED	URANIUM-233,-234	-.241		0.334	0.1149		0.1405	564.47	2	2		669.31	148.26	22.15	
70093	03/25/93	DISSOLVED	URANIUM-235	-.0115	J	.21	-.038	J	.357	107.07							
71893	03/29/93	DISSOLVED	URANIUM-235	-.00836	J	.213				NC							
71893	04/26/93	DISSOLVED	URANIUM-235	0.0172		0.0928	0.0088		0.0652	64.62	2	2		85.84	30.02	34.97	
70093	03/25/93	DISSOLVED	URANIUM-238	.07678	J	.234	.02987	J	.357	87.97							
71893	03/29/93	DISSOLVED	URANIUM-238	.0711	J	.284				NC							
71893	04/26/93	DISSOLVED	URANIUM-238	0.0516		0.0634	0.1681		0.0652	106.05	2	2		97.01	12.79	13.18	
70093	03/25/93	TOTAL	ALUMINUM	23100		31.7	36200			31.7	44.00						
71893	03/29/93	TOTAL	ALUMINUM	20400		31.7	10400			31.7	65.00						
71893	04/26/93	TOTAL	ALUMINUM	28500		18	31400			18	10.00	3	2		39.67	27.75	69.97
70093	03/25/93	TOTAL	ANTIMONY	24.6		19.7	21.8			19.7	12.10						
71893	03/29/93	TOTAL	ANTIMONY	34.6		19.7	19.7			19.7	54.90						
71893	04/26/93	TOTAL	ANTIMONY	27	U	17	27	U		17	0.00	3	1		22.33	28.85	129.16
70093	03/25/93	TOTAL	ARSENIC	2.1		1.1	2.4			1.1	13.30						
71893	03/29/93	TOTAL	ARSENIC	1.1	U	1.1	3.8			1.1	110.20						
71893	04/26/93	TOTAL	ARSENIC	5.1		2	5.3			2	3.80	3	1		42.43	58.88	138.76
70093	03/25/93	TOTAL	BARIUM	242		6.5	358			6.5	39.00						
71893	03/29/93	TOTAL	BARIUM	236		6.5	169			6.5	33.00						
71893	04/26/93	TOTAL	BARIUM	362		17	324			17	11.00	3	2		27.67	14.74	53.29
70093	03/25/93	TOTAL	BERYLLIUM	2		.9	2.4			.9	18.00						
71893	03/29/93	TOTAL	BERYLLIUM	2.4		.9	.9	U		.9	90.90						
71893	04/26/93	TOTAL	BERYLLIUM	2.8		1	2.6			1	7.40	3	1		38.77	45.46	117.26
70093	03/25/93	TOTAL	CADMIUM	2.7	U	2.7	2.7	U		2.7	0.00						
71893	03/29/93	TOTAL	CADMIUM	2.7	U	2.7	2.8			2.7	3.60						
71893	04/26/93	TOTAL	CADMIUM	2.7		2	2	U		2	30.00	3	1		11.20	16.38	146.25
70093	03/25/93	TOTAL	CALCIUM	22600		30.8	25100			30.8	10.00						
71893	03/29/93	TOTAL	CALCIUM	35300		30.8	31100			30.8	13.00						
71893	04/26/93	TOTAL	CALCIUM	49800		149	47600			149	5.00	3	0		9.33	4.04	43.30
70093	03/25/93	TOTAL	CESIUM	500	U	500	500	U		500	0.00						
71893	03/29/93	TOTAL	CESIUM	500	U	500	500	U		500	0.00						
71893	04/26/93	TOTAL	CESIUM	33	U	617	33	U		617	0.00	3	0				
70093	03/25/93	TOTAL	CHROMIUM	19.3		2.6	32			2.6	50.00						
71893	03/29/93	TOTAL	CHROMIUM	26.3		2.6	13.1			2.6	67.00						
71893	04/26/93	TOTAL	CHROMIUM	30.8		5	30.6			5	0.70	3	2		39.23	34.44	87.77
70093	03/25/93	TOTAL	COBALT	7.7		2.6	14.8			2.6	63.10						
71893	03/29/93	TOTAL	COBALT	7.8		2.6	2.6	U		2.6	100.00						
71893	04/26/93	TOTAL	COBALT	14.7		4	13			4	12.00	3	2		58.37	44.19	75.71

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
70093	03/26/93	TOTAL	COPPER	17.6		2.9	29.9		2.9	51.80					
71893	03/29/93	TOTAL	COPPER	18.9		2.9	9.1		2.9	70.00					
71893	04/26/93	TOTAL	COPPER	33.7		2	34.4		2	2.10	3	2	41.30	35.15	85.10
70093	03/25/93	TOTAL	IRON	24400		7.5	42300		7.5	54.00					
71893	03/29/93	TOTAL	IRON	24900		7.5	11000		7.5	77.00					
71893	04/26/93	TOTAL	IRON	35500		5	34400		5	3.00	3	2	44.67	37.87	84.79
70093	03/25/93	TOTAL	LEAD	10.9		1.1	21.5		1.1	65.40					
71893	03/29/93	TOTAL	LEAD	3.3		1.1	3.1		1.1	6.30					
71893	04/26/93	TOTAL	LEAD	22.1		1	20.6		1	7.50	3	1	26.40	33.78	127.96
70093	03/26/93	TOTAL	LITHIUM	15.9		3.4	21.9		3.4	31.70					
71893	03/29/93	TOTAL	LITHIUM	15.7		3.4	11.6		3.4	30.00					
71893	04/26/93	TOTAL	LITHIUM	30	U	2	30	U	2	0.00	3	2	20.57	17.83	86.70
70093	03/26/93	TOTAL	MAGNESIUM	6940		38.9	9460		38.9	31.00					
71893	03/29/93	TOTAL	MAGNESIUM	9070		38.9	6710		38.9	30.00					
71893	04/26/93	TOTAL	MAGNESIUM	12200		249	12000		249	2.00	3	2	21.00	16.46	78.39
70093	03/26/93	TOTAL	MANGANESE	478		2.4	761		2.4	46.00					
71893	03/29/93	TOTAL	MANGANESE	363		2.4	209		2.4	54.00					
71893	04/26/93	TOTAL	MANGANESE	560	N	1	449	N	1	22.00	3	3	40.67	16.65	40.95
70093	03/25/93	TOTAL	MERCURY	.2	U	.2	.2	U	.2	0.00					
71893	03/29/93	TOTAL	MERCURY	.2	U	.2	.2	U	.2	0.00					
71893	04/26/93	TOTAL	MERCURY	.2	U	.2	.2	U	.2	0.00	3	0			
70093	03/26/93	TOTAL	MOLYBDENUM	6.5	U	6.5	6.5	U	6.5	0.00					
71893	03/29/93	TOTAL	MOLYBDENUM	6.5	U	6.5	6.5	U	6.5	0.00					
71893	04/26/93	TOTAL	MOLYBDENUM	11	U	7	11	U	7	0.00	3	0			
70093	03/26/93	TOTAL	NICKEL	11	U	11	20.7		11	61.00					
71893	03/29/93	TOTAL	NICKEL	15.7		11	11	U	11	35.00					
71893	04/26/93	TOTAL	NICKEL	30.6		11	21.9		11	33.10	3	3	43.03	15.59	36.22
70093	03/26/93	TOTAL	POTASSIUM	4820		779	6080		779	23.00					
71893	03/29/93	TOTAL	POTASSIUM	5330		779	3890		779	31.00					
71893	04/26/93	TOTAL	POTASSIUM	7230		776	6930		776	4.00	3	2	19.33	13.87	71.73
70093	03/26/93	TOTAL	SELENIUM				1.6	U	1.6	NC					
71893	03/29/93	TOTAL	SELENIUM	1.6	U	1.6	1.6	U	1.6	0.00					
71893	04/26/93	TOTAL	SELENIUM	3	U	2	3	UW	2	0.00	2	0			
70093	03/26/93	TOTAL	SILICON	36700		7.3	64600		7.3	55.00					
71893	03/29/93	TOTAL	SILICON	34600		7.3	24400		7.3	35.00					
71893	04/26/93	TOTAL	SILICON	65400	*	25	71100	*	25	8.00	3	2	32.67	23.59	72.20
70093	03/25/93	TOTAL	SILVER	3.6	U	3.6	3.6	U	3.6	0.00					
71893	03/29/93	TOTAL	SILVER	3.6	U	3.6	3.6		3.6	0.00					
71893	04/26/93	TOTAL	SILVER	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	SODIUM	8790		61.6	8520		61.6	3.00					
71893	03/29/93	TOTAL	SODIUM	10400		61.6	9960		61.6	4.00					
71893	04/26/93	TOTAL	SODIUM	13100		584	12700		584	3.00	3	0	3.33	0.58	17.32
70093	03/25/93	TOTAL	STRONTIUM	170		5.5	198		5.5	15.00					
71893	03/29/93	TOTAL	STRONTIUM	203		5.5	175		5.5	15.00					
71893	04/26/93	TOTAL	STRONTIUM	266	N	1	256	N	1	4.00	3	0	11.33	6.35	56.04
70093	03/25/93	TOTAL	THALLIUM	1.7	U	1.7	1.7	U	1.7	0.00					
71893	03/29/93	TOTAL	THALLIUM	1.7	U	1.7	1.7	U	1.7	0.00					
71893	04/26/93	TOTAL	THALLIUM	3	U	2	3	U	2	0.00	3	0			

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
70093	03/25/93	TOTAL	TIN	21.5		16.7	21.3		16.7	0.90					
71893	03/29/93	TOTAL	TIN	16.7	U	16.7	20.9		16.7	22.30					
71893	04/26/93	TOTAL	TIN	29	U	18	37.5		18	70.00	3	2	31.07	35.37	113.87
70093	03/25/93	TOTAL	VANADIUM	40.8		3.2	71.6		3.2	54.80					
71893	03/29/93	TOTAL	VANADIUM	54.8		3.2	24.7		3.2	75.70					
71893	04/26/93	TOTAL	VANADIUM	55.8		3	62.5		3	11.30	3	2	47.27	32.85	69.51
70093	03/25/93	TOTAL	ZINC	72.4		2.4	102		2.4	34.00					
71893	03/29/93	TOTAL	ZINC	89.5		2.4	38.2		2.4	80.30					
71893	04/26/93	TOTAL	ZINC	165		3	118		3	33.00	3	3	49.10	27.02	55.04
70093	03/25/93	TOTAL	AMERICIUM-241	.00391	J	.006	.000437	J	.006	250.33					
71893	03/29/93	TOTAL	AMERICIUM-241	.008176		.006	.004833	J	.007	51.40					
71893	04/26/93	TOTAL	AMERICIUM-241	.0048		.04	.001		.01	131.03	3	3	144.25	100.12	69.41
71893	03/29/93	TOTAL	PLUTONIUM-239/240	.005063		.003	.00188	J	.011	91.69					
71893	04/26/93	TOTAL	PLUTONIUM-239/240	0		.15	0		.01		1	1			
70093	03/25/93	TOTAL	TRITIUM	147	J	254.1	50.28	J	254.1	98.00					
71893	03/29/93	TOTAL	TRITIUM	177.8	J	254.1	200	J	254.1	12.00					
71893	04/26/93	TOTAL	TRITIUM	342.75		394.03	39.56		395.3	158.61	3	2	89.54	73.67	82.28
70093	03/25/93	TOTAL	1,1,1-TRICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,1,1-TRICHLOROETHANE	5	U	5	6		5	18.00					
71893	04/26/93	TOTAL	1,1,1-TRICHLOROETHANE	5	U	5	5	U	5	0.00	3	0	6.00	10.39	173.21
70093	03/25/93	TOTAL	1,1,2,2-TETRACHLOROETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,1,2,2-TETRACHLOROETHANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,1,2,2-TETRACHLOROETHANE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	1,1,2-TRICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,1,2-TRICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,1,2-TRICHLOROETHANE	5	U	5	5	U	5	0.00					
70093	03/25/93	TOTAL	1,1-DICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,1-DICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,1-DICHLOROETHANE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	1,1-DICHLOROETHENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,1-DICHLOROETHENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,1-DICHLOROETHENE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	1,1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00					
70093	03/25/93	TOTAL	1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,2-DICHLOROETHANE	5	U	5	5	U	5	0.00					
70093	03/25/93	TOTAL	1,2-DICHLOROETHENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,2-DICHLOROETHENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,2-DICHLOROETHENE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	1,2-DICHLOROPROPANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	1,2-DICHLOROPROPANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	1,2-DICHLOROPROPANE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	2-BUTANONE	10	U	10	10	U	10	0.00					
71893	03/29/93	TOTAL	2-BUTANONE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	2-BUTANONE	10	U	10	10	U	10	0.00					
70093	03/25/93	TOTAL	2-HEXANONE	10	U	10	10	U	10	0.00					
71893	03/29/93	TOTAL	2-HEXANONE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	2-HEXANONE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	4-METHYL-2-PENTANONE	10	U	10	10	U	10	0.00					

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
71893	03/29/93	TOTAL	4-METHYL-2-PENTANONE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	4-METHYL-2-PENTANONE	10	U	10	10	U	10	0.00	3	0			
70093	03/26/93	TOTAL	ACETONE	10	U	10	10	U	10	0.00					
71893	03/29/93	TOTAL	ACETONE	10	U	10	10	U	10	0.00	NC				
71893	04/26/93	TOTAL	ACETONE	10	U	10	10	U	10	0.00	2	0			
70093	03/26/93	TOTAL	BENZENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	BENZENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	BENZENE	5	U	5	5	U	5	0.00	3	0			
70093	03/26/93	TOTAL	BROMODICHLOROMETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	BROMODICHLOROMETHANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	BROMODICHLOROMETHANE	5	U	5	5	U	5	0.00	3	0			
70093	03/26/93	TOTAL	BROMOFORM	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	BROMOFORM	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	BROMOFORM	5	U	5	5	U	5	0.00	3	0			
70093	03/26/93	TOTAL	BROMOMETHANE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	BROMOMETHANE	10	U	10	10	U	10	0.00	2	0			
70093	03/26/93	TOTAL	CARBON DISULFIDE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	CARBON DISULFIDE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	CARBON DISULFIDE	5	U	5	5	U	5	0.00	3	0			
70093	03/26/93	TOTAL	CARBON TETRACHLORIDE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	CARBON TETRACHLORIDE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	CARBON TETRACHLORIDE	5	U	5	5	U	5	0.00	3	0			
70093	03/26/93	TOTAL	CHLOROBENZENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	CHLOROBENZENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	CHLOROBENZENE	5	U	5	5	U	5	0.00	3	0			
70093	03/26/93	TOTAL	CHLOROETHANE	10	U	10	10	U	10	0.00					
71893	03/29/93	TOTAL	CHLOROETHANE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	CHLOROETHANE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	CHLOROFORM	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	CHLOROFORM	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	CHLOROFORM	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	CHLOROMETHANE	10	U	10	10	U	10	0.00					
71893	03/29/93	TOTAL	CHLOROMETHANE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	CHLOROMETHANE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	cis-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	cis-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	cis-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	DIBROMOCHLOROMETHANE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	DIBROMOCHLOROMETHANE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	DIBROMOCHLOROMETHANE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	ETHYLBENZENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	ETHYLBENZENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	ETHYLBENZENE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	METHYLENE CHLORIDE	11	U	5	12	U	5	0.00					
71893	03/29/93	TOTAL	METHYLENE CHLORIDE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	METHYLENE CHLORIDE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	STYRENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	STYRENE	5	U	5	5	U	5	0.00					

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
71893	04/26/93	TOTAL	STYRENE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	TETRACHLOROETHENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	TETRACHLOROETHENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	TETRACHLOROETHENE	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	TOLUENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	TOLUENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	TOLUENE	5	U	5	5	U	5	0.00	3	0			
70093	03/26/93	TOTAL	TOTAL XYLEMES	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	TOTAL XYLEMES	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	TOTAL XYLEMES	5	U	5	5	U	5	0.00	3	0			
70093	03/25/93	TOTAL	trans-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00					
71893	04/26/93	TOTAL	trans-1,3-DICHLOROPROPENE	5	U	5	5	U	5	0.00	2	0			
70093	03/25/93	TOTAL	TRICHLOROETHENE	5	U	5	5	U	5	0.00					
71893	03/29/93	TOTAL	TRICHLOROETHENE	15	U	5	33	U	5	75.00					
71893	04/26/93	TOTAL	TRICHLOROETHENE	7	U	5	7	U	5	0.00	3	1	25.00	43.30	173.21
70093	03/25/93	TOTAL	VINYL ACETATE	10	U	10	10	U	10	0.00					
71893	03/29/93	TOTAL	VINYL ACETATE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	VINYL ACETATE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	VINYL CHLORIDE	10	U	10	10	U	10	0.00					
71893	03/29/93	TOTAL	VINYL CHLORIDE	10	U	10	10	U	10	0.00					
71893	04/26/93	TOTAL	VINYL CHLORIDE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	1,2,4-TRICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	1,2,4-TRICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	1,2,4-TRICHLOROBENZENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	1,2-DICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	1,2-DICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	1,2-DICHLOROBENZENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	1,3-DICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	1,3-DICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	1,3-DICHLOROBENZENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	1,4-DICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	1,4-DICHLOROBENZENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	1,4-DICHLOROBENZENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	2,4,5-TRICHLOROPHENOL	55	U	55	50	U	50	0.00					
71893	03/29/93	TOTAL	2,4,5-TRICHLOROPHENOL	55	U	55	50	U	50	0.00					
71893	04/26/93	TOTAL	2,4,5-TRICHLOROPHENOL	50	U	50	50	U	50	0.00	3	0			
70093	03/25/93	TOTAL	2,4,6-TRICHLOROPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2,4,6-TRICHLOROPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2,4,6-TRICHLOROPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	2,4-DICHLOROPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2,4-DICHLOROPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2,4-DICHLOROPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	2,4-DIMETHYLPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2,4-DIMETHYLPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2,4-DIMETHYLPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	2,4-DINITROPHENOL	55	U	55	50	U	50	0.00					
71893	03/29/93	TOTAL	2,4-DINITROPHENOL	55	U	55	50	U	50	0.00					
71893	04/26/93	TOTAL	2,4-DINITROPHENOL	50	U	50	50	U	50	0.00	3	0			

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
70093	03/26/93	TOTAL	2,4-DINITROTOLUENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2,4-DINITROTOLUENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2,4-DINITROTOLUENE	10	U	10	10	U	10	0.00					
70093	03/26/93	TOTAL	2,6-DINITROTOLUENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2,6-DINITROTOLUENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2,6-DINITROTOLUENE	10	U	10	10	U	10	0.00	3	0			
70093	03/26/93	TOTAL	2-CHLORONAPHTHALENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2-CHLORONAPHTHALENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2-CHLORONAPHTHALENE	10	U	10	10	U	10	0.00	3	0			
70093	03/26/93	TOTAL	2-CHLOROPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2-CHLOROPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2-CHLOROPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	2-METHYLNAPHTHALENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2-METHYLNAPHTHALENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2-METHYLNAPHTHALENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	2-METHYLPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2-METHYLPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2-METHYLPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	2-NITROANILINE	55	U	55	50	U	50	0.00					
71893	03/29/93	TOTAL	2-NITROANILINE	55	U	55	50	U	50	0.00					
71893	04/26/93	TOTAL	2-NITROANILINE	50	U	50	50	U	50	0.00	3	0			
70093	03/25/93	TOTAL	2-NITROPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	2-NITROPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	2-NITROPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/26/93	TOTAL	3,3'-DICHLOROBENZIDINE	22	U	22	20	U	20	0.00					
71893	03/29/93	TOTAL	3,3'-DICHLOROBENZIDINE	22	U	22	20	U	20	0.00	2	0			
70093	03/25/93	TOTAL	3-NITROANILINE	55	U	55	50	U	50	0.00					
71893	03/29/93	TOTAL	3-NITROANILINE	55	U	55	50	U	50	0.00					
71893	04/26/93	TOTAL	3-NITROANILINE	50	U	50	50	U	50	0.00	3	0			
70093	03/25/93	TOTAL	4,6-DINITRO-2-METHYLPHENOL	55	U	55	50	U	50	0.00					
71893	03/29/93	TOTAL	4,6-DINITRO-2-METHYLPHENOL	55	U	55	50	U	50	0.00					
71893	04/26/93	TOTAL	4,6-DINITRO-2-METHYLPHENOL	50	U	50	50	U	50	0.00	3	0			
70093	03/25/93	TOTAL	4-BROMOPHENYL PHENYL ETHER	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	4-BROMOPHENYL PHENYL ETHER	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	4-BROMOPHENYL PHENYL ETHER	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	4-CHLORO-3-METHYLPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	4-CHLORO-3-METHYLPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	4-CHLORO-3-METHYLPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	4-CHLOROANILINE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	4-CHLOROANILINE	11	U	11	10	U	10	0.00	2	0			
70093	03/25/93	TOTAL	4-CHLOROPHENYL PHENYL ETHER	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	4-CHLOROPHENYL PHENYL ETHER	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	4-CHLOROPHENYL PHENYL ETHER	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	4-METHYLPHENOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	4-METHYLPHENOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	4-METHYLPHENOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	4-NITROANILINE	55	U	55	50	U	50	0.00					
71893	03/29/93	TOTAL	4-NITROANILINE	55	U	55	50	U	50	0.00					

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
71893	04/26/93	TOTAL	4-NITROANILINE	50	U	50	50	U	50	0.00	3	0			
70093	03/25/93	TOTAL	4-NITROPHENOL	55	U	55	50	U	50	0.00					
71893	03/29/93	TOTAL	4-NITROPHENOL	55	U	55	50	U	50	0.00	2	0			
70093	03/25/93	TOTAL	ACENAPHTHENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	ACENAPHTHENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	ACENAPHTHENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	ACENAPHTHYLENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	ACENAPHTHYLENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	ACENAPHTHYLENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	ANTHRACENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	ANTHRACENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	ANTHRACENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BENZO(a)ANTHRACENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BENZO(a)ANTHRACENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BENZO(a)ANTHRACENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BENZO(a)PYRENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BENZO(a)PYRENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BENZO(a)PYRENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BENZO(b)FLUORANTHENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BENZO(b)FLUORANTHENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BENZO(b)FLUORANTHENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BENZO(ghi)PERYLENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BENZO(ghi)PERYLENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BENZO(ghi)PERYLENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BENZO(k)FLUORANTHENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BENZO(k)FLUORANTHENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BENZO(k)FLUORANTHENE	10	U	10	10	U	10	0.00	3	0			
71893	04/26/93	TOTAL	BENZOIC ACID	50	U	50	50	U	50	0.00	1	0			
70093	03/25/93	TOTAL	BENZYL ALCOHOL	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BENZYL ALCOHOL	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BENZYL ALCOHOL	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BIS(2-CHLOROETHOXY)METHANE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BIS(2-CHLOROETHOXY)METHANE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BIS(2-CHLOROETHOXY)METHANE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BIS(2-CHLOROETHYL)ETHER	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BIS(2-CHLOROETHYL)ETHER	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BIS(2-CHLOROETHYL)ETHER	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BIS(2-CHLOROISOPROPYL)ETHER	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BIS(2-CHLOROISOPROPYL)ETHER	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BIS(2-CHLOROISOPROPYL)ETHER	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BIS(2-ETHYLHEXYL)PHTHALATE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BIS(2-ETHYLHEXYL)PHTHALATE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BIS(2-ETHYLHEXYL)PHTHALATE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	BUTYL BENZYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	BUTYL BENZYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	BUTYL BENZYL PHTHALATE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	CHRYSENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	CHRYSENE	11	U	11	10	U	10	0.00					

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
71893	04/26/93	TOTAL	CHRYSENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	DI-n-BUTYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	DI-n-BUTYL PHTHALATE	2	J	11	10	U	10	133.00					
71893	04/26/93	TOTAL	DI-n-BUTYL PHTHALATE	10	U	10	10	U	10	0.00	3	1	44.33	76.79	173.21
70093	03/25/93	TOTAL	DI-n-OCTYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	DI-n-OCTYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	DI-n-OCTYL PHTHALATE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	DIBENZO(a,h)ANTHRACENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	DIBENZO(a,h)ANTHRACENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	DIBENZO(a,h)ANTHRACENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	DIBENZOFURAN	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	DIBENZOFURAN	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	DIBENZOFURAN	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	DIETHYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	DIETHYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	DIETHYL PHTHALATE	4	J	10	10	U	10	86.00	3	1	28.67	49.65	173.21
70093	03/25/93	TOTAL	DIMETHYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	DIMETHYL PHTHALATE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	DIMETHYL PHTHALATE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	FLUORANTHENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	FLUORANTHENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	FLUORANTHENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	FLUORENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	FLUORENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	FLUORENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	HEXAChLOROBENZENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	HEXAChLOROBENZENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	HEXAChLOROBENZENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	HEXAChLOROBUTADIENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	HEXAChLOROBUTADIENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	HEXAChLOROBUTADIENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	HEXAChLOROCYCLOPENTADIENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	HEXAChLOROCYCLOPENTADIENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	HEXAChLOROCYCLOPENTADIENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	HEXAChLOROETHANE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	HEXAChLOROETHANE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	HEXAChLOROETHANE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	INDENO(1,2,3-cd)PYRENE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	INDENO(1,2,3-cd)PYRENE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	INDENO(1,2,3-cd)PYRENE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	ISOPHORONE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	ISOPHORONE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	ISOPHORONE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	N-NITROSO-DI-n-PROPYLAMINE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	N-NITROSO-DI-n-PROPYLAMINE	11	U	11	10	U	10	0.00					
71893	04/26/93	TOTAL	N-NITROSO-DI-n-PROPYLAMINE	10	U	10	10	U	10	0.00	3	0			
70093	03/25/93	TOTAL	N-NITROSODIPHENYLAMINE	11	U	11	10	U	10	0.00					
71893	03/29/93	TOTAL	N-NITROSODIPHENYLAMINE	11	U	11	10	U	10	0.00					

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV	
71893	04/26/93	TOTAL	N-NITROSODIPHENYLAMINE	10	U	10	10	U	10	0.00	3	0				
70093	03/25/93	TOTAL	NAPHTHALENE	11	U	11	10	U	10	0.00						
71893	03/29/93	TOTAL	NAPHTHALENE	11	U	11	10	U	10	0.00						
71893	04/26/93	TOTAL	NAPHTHALENE	10	U	10	10	U	10	0.00	3	0				
70093	03/25/93	TOTAL	NITROBENZENE	11	U	11	10	U	10	0.00						
71893	03/29/93	TOTAL	NITROBENZENE	11	U	11	10	U	10	0.00						
71893	04/26/93	TOTAL	NITROBENZENE	10	U	10	10	U	10	0.00						
70093	03/25/93	TOTAL	PENTACHLOROPHENOL	55	U	55	50	U	50	0.00	3	0				
71893	03/29/93	TOTAL	PENTACHLOROPHENOL	55	U	55	50	U	50	0.00						
71893	04/26/93	TOTAL	PENTACHLOROPHENOL	50	U	50	50	U	50	0.00	3	0				
70093	03/25/93	TOTAL	PHENANTHRENE	11	U	11	10	U	10	0.00						
71893	03/29/93	TOTAL	PHENANTHRENE	11	U	11	10	U	10	0.00						
71893	04/26/93	TOTAL	PHENANTHRENE	10	U	10	10	U	10	0.00	3	0				
70093	03/25/93	TOTAL	PHENOL	11	U	11	10	U	10	0.00						
71893	03/29/93	TOTAL	PHENOL	11	U	11	10	U	10	0.00						
71893	04/26/93	TOTAL	PHENOL	10	U	10	10	U	10	0.00	3	0				
70093	03/25/93	TOTAL	PYRENE	11	U	11	10	U	10	0.00						
71893	03/29/93	TOTAL	PYRENE	11	U	11	10	U	10	0.00						
71893	04/26/93	TOTAL	PYRENE	10	U	10	10	U	10	0.00	3	0				
70093	03/25/93	TOTAL	BICARBONATE AS CACO3	52.6		10	41.6		10	23.40						
71893	03/29/93	TOTAL	BICARBONATE AS CACO3	79.6		10	74.2		10	7.00						
71893	04/26/93	TOTAL	BICARBONATE AS CACO3	130		10	130		10	0.00	3	1	10.13	12.01	118.53	
70093	03/25/93	TOTAL	CARBONATE	10	U	10	10	U	10	0.00						
71893	03/29/93	TOTAL	CARBONATE	10	U	10	10	U	10	0.00						
71893	04/26/93	TOTAL	CARBONATE	10	U	10	10	U	10	0.00	3	0				
70093	03/25/93	TOTAL	CHLORIDE	4		.25	3.7		.25	8.00						
71893	03/29/93	TOTAL	CHLORIDE	5.7		.25	5.9		.25	3.40						
71893	04/26/93	TOTAL	CHLORIDE	5	U	5	5	U	5	0.00	3	0	3.80	4.01	105.66	
70093	03/25/93	TOTAL	CYANIDE	20	U	20	10	U	10	0.00						
71893	03/29/93	TOTAL	CYANIDE	10	U	10	10	U	10	0.00						
71893	04/26/93	TOTAL	CYANIDE	.013		.01	.01	U	.01	26.09	3	1	8.70	15.06	173.21	
70093	03/25/93	TOTAL	FLUORIDE	.2	U	.2	.2	U	.2	0.00						
71893	03/29/93	TOTAL	FLUORIDE	.2	U	.2	.2	U	.2	0.00						
71893	04/26/93	TOTAL	FLUORIDE	.2		.1	.21		.1	4.90	3	0	1.63	2.83	173.21	
70093	03/25/93	TOTAL	NITRATE	3		.5	3.2		.5	6.00						
71893	03/29/93	TOTAL	NITRATE	5.3		.5	5.6		.5	5.50	2	0	5.75	0.35	6.15	
71893	04/26/93	TOTAL	NITRATE/NITRITE	.85		.1	1.5		.1	55.30	1	1				
70093	03/25/93	TOTAL	NITRITE	.02	U	.02	.02	U	.02	0.00						
71893	03/29/93	TOTAL	NITRITE	.029		.02	.024		.02	18.87	2	0	9.43	13.34	141.42	
70093	03/25/93	TOTAL	SULFATE	29.9		2.5	28.8		2.5	3.70						
71893	03/29/93	TOTAL	SULFATE	25.6		2.5	27		1	5.00						
71893	04/26/93	TOTAL	SULFATE	28		5	28		5	0.00	3	0	2.90	2.59	89.46	
70093	03/25/93	TOTAL	SULFIDE	1	U	1	1	U	1	0.00						
71893	03/29/93	TOTAL	SULFIDE	1	U	1	1	U	1	0.00						
71893	04/26/93	TOTAL	SULFIDE	7.8		1	12		1	42.00	3	1	14.00	24.25	173.21	
70093	03/25/93	TOTAL	TOTAL DISSOLVED SOLIDS	170		10	260		10	42.00						
71893	03/29/93	TOTAL	TOTAL DISSOLVED SOLIDS	280		10	390		10	33.00						
71893	04/26/93	TOTAL	TOTAL DISSOLVED SOLIDS	220		14	220		14	0.00	3	2	25.00	22.11	88.45	

Table J-7
Relative Percent Differences for Real/Duplicate Sample Pairs of Groundwater

LOCATION	SAMPLING DATE	TOTAL/ DISSOLVED	ANALYTE	REAL RESULT	REAL QUAL	REAL DL	DUP RESULT	DUP QUAL	DUP DL	RPD	N	N > 20%	Avg	StDev	%CV
70093	03/26/93	TOTAL	TOTAL SUSPENDED SOLIDS	710	5	830		5	16.00						
71893	03/29/93	TOTAL	TOTAL SUSPENDED SOLIDS	1200	5	670		5	57.00						
71893	04/26/93	TOTAL	TOTAL SUSPENDED SOLIDS	770	5	2400		5	103.00	3	2		58.67	43.52	74.19

Table J-8
%Bias for Metals in Matrix Spike and Matrix Spike Duplicate Samples of Groundwater

SAMPLE NUMBER	RESULT TYPE	TOTAL/ DISSOLVED	ANALYTE	%R	%BIAS	N	N > 20%	QUAL
GW00654WCMS	MS	Dissolved	ALUMINUM	104.10	4.10	1	0	
GW00654WCMS	MS	Dissolved	ANTIMONY	105.50	5.50	1	0	
GW00654WCMS	MS	Dissolved	ARSENIC	89.50	10.50	1	0	
GW00654WCMS	MS	Dissolved	BARIUM	100.50	0.50	1	0	
GW00654WCMS	MS	Dissolved	BERYLLIUM	98.70	1.30	1	0	
GW00654WCMS	MS	Dissolved	CADMIUM	106.00	6.00	1	0	
GW00654WCMS	MS	Dissolved	CESIUM	617.00	517.00	1	1	U
GW00654WCMS	MS	Dissolved	CHROMIUM	107.40	7.40	1	0	
GW00654WCMS	MS	Dissolved	COBALT	106.60	6.60	1	0	
GW00654WCMS	MS	Dissolved	COPPER	102.30	2.30	1	0	
GW00654WCMS	MS	Dissolved	IRON	108.40	8.40	1	0	
GW00654WCMS	MS	Dissolved	LEAD	93.50	6.50	1	0	
GW00654WCMS	MS	Dissolved	LITHIUM	103.20	3.20	1	0	
GW00654WCMS	MS	Dissolved	MANGANESE	102.90	2.90	1	0	
GW00654WCMS	MS	Dissolved	MERCURY	99.80	0.20	1	0	
GW00654WCMS	MS	Dissolved	MOLYBDENUM	106.30	6.30	1	0	
GW00654WCMS	MS	Dissolved	NICKEL	105.80	5.80	1	0	
GW00654WCMS	MS	Dissolved	SELENIUM	73.70	26.30	1	1	
GW00654WCMS	MS	Dissolved	SILICON	89.00	11.00	1	0	
GW00654WCMS	MS	Dissolved	SILVER	107.60	7.60	1	0	
GW00654WCMS	MS	Dissolved	STRONTIUM	100.70	0.70	1	0	
GW00654WCMS	MS	Dissolved	THALLIUM	94.50	5.50	1	0	
GW00654WCMS	MS	Dissolved	TIN	106.90	6.90	1	0	
GW00654WCMS	MS	Dissolved	VANADIUM	109.00	9.00	1	0	
GW00654WCMS	MS	Dissolved	ZINC	107.40	7.40	1	0	
GW00654WCMS	MS	Total	ALUMINUM	234.4	134.4	1	1	
GW00654WCMS	MS	Total	ANTIMONY	83.5	16.5	1	0	
GW00654WCMS	MS	Total	ARSENIC	66.0	34.0	1	1	
GW00654WCMS	MS	Total	BARIUM	96.4	3.6	1	0	
GW00654WCMS	MS	Total	BERYLLIUM	95.7	4.3	1	0	
GW00654WCMS	MS	Total	CADMIUM	99.5	0.5	1	0	

Table J-8
%Bias for Metals in Matrix Spike and Matrix Spike Duplicate Samples of Groundwater

SAMPLE NUMBER	RESULT TYPE	TOTAL/ DISSOLVED	ANALYTE	%R	%BIAS	N	N > 20%	QUAL
GW00654WCMS	MS	Total	CESIUM	617.0	517.0	1	1	U
GW00654WCMS	MS	Total	CHROMIUM	103.7	3.7	1	0	
GW00654WCMS	MS	Total	COBALT	100.0	0.0	1	0	
GW00654WCMS	MS	Total	COPPER	99.0	1.0	1	0	
GW00654WCMS	MS	Total	IRON	5.0	95.0	1	1	U
GW00654WCMS	MS	Total	LEAD	94.4	5.6	1	0	
GW00654WCMS	MS	Total	LITHIUM	101.0	1.0	1	0	
GW00654WCMS	MS	Total	MANGANESE	87.1	12.9	1	0	
GW00654WCMS	MS	Total	MERCURY	113.4	13.4	1	0	
GW00654WCMS	MS	Total	MOLYBDENUM	98.1	1.9	1	0	
GW00654WCMS	MS	Total	NICKEL	102.5	2.5	1	0	
GW00654WCMS	MS	Total	SELENIUM	91.7	8.3	1	0	
GW00654WCMS	MS	Total	SILICON	351.5	251.5	1	1	
GW00654WCMS	MS	Total	SILVER	109.4	9.4	1	0	
GW00654WCMS	MS	Total	STRONTIUM	94.0	6.0	1	0	
GW00654WCMS	MS	Total	THALLIUM	108.3	8.3	1	0	
GW00654WCMS	MS	Total	TIN	103.4	3.4	1	0	
GW00654WCMS	MS	Total	VANADIUM	102.7	2.7	1	0	
GW00654WCMS	MS	Total	ZINC	98.3	1.7	1	0	
GW70019STMS	MS	Total	1,1-DICHLOROETHENE	104	4	1	0	
GW70019STMS	MS	Total	BENZENE	94	6	1	0	
GW70019STMS	MS	Total	CHLOROBENZENE	96	4	1	0	
GW70019STMS	MS	Total	TOLUENE	98	2	1	0	
GW70019STMS	MS	Total	TRICHLOROETHENE	100	0	1	0	
GW70019STMSD	MSD	Dissolved	CESIUM	101	1	1	0	
GW70019STMSD	MSD	Dissolved	SILICON	144	44	1	1	
GW70019STMSD	MSD	Total	1,1-DICHLOROETHENE	100	0	1	0	
GW70019STMSD	MSD	Total	BENZENE	93	7	1	0	
GW70019STMSD	MSD	Total	CESIUM	106	6	1	0	
GW70019STMSD	MSD	Total	CHLOROBENZENE	96	4	1	0	
GW70019STMSD	MSD	Total	TOLUENE	98	2	1	0	

Table J-8
%Bias for Metals in Matrix Spike and Matrix Spike Duplicate Samples of Groundwater

SAMPLE NUMBER	RESULT TYPE	TOTAL/ DISSOLVED	ANALYTE	%R	%BIAS	N	N > 20%	QUAL
GW70019STMSD	MSD	Total	TRICHLOROETHENE	96	4	1	0	

Table J-9
Analytical Results for Equipment Rinses/Blanks Collected During Soil Gas Sampling

IHSS	SAMPLE TYPE	QC SAMPLE TYPE	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
IHSS 114	SOIL GAS	Eqt. Rinse	2-BUTANONE	2/4	0.113	1.071	0.592	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	1,2-DICHLOROETHENE	4/4	2.284	16.338	9.494	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	1,1,1-TRICHLOROETHANE	0/4				
IHSS 114	SOIL GAS	Eqt. Rinse	ACETONE	2/4	0.89	3.26	2.075	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	HYDROGEN SULFIDE	0/4				
IHSS 114	SOIL GAS	Eqt. Rinse	METHANE	4/4	23.061	1367.8	387.638	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	METHYLENE CHLORIDE	3/4	110.69	266.123	165.562	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	TOLUENE	4/4	0.006	0.133	0.0385	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	TRICHLOROETHENE	1/4	0.089	0.089	0.089	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	PARA, META XYLENE	4/4	0.009	0.381	0.1515	MG/L
IHSS 114	SOIL GAS	Eqt. Rinse	ORTHO XYLENE	4/4	0.007	0.189	0.05375	MG/L
IHSS 203	SOIL GAS	Eqt. Blank	2-BUTANONE	1/7	2	2	2	UG/L
IHSS 203	SOIL GAS	Eqt. Blank	1,2-DICHLOROETHENE	0/7				UG/L
IHSS 203	SOIL GAS	Eqt. Blank	1,1,1-TRICHLOROETHANE	5/7	0.006	0.1	0.032	UG/L
IHSS 203	SOIL GAS	Eqt. Blank	ACETONE	2/7	0.9	2	0.414	UG/L
IHSS 203	SOIL GAS	Eqt. Blank	TOLUENE	0/7				UG/L
IHSS 203	SOIL GAS	Eqt. Blank	TRICHLOROETHENE	7/7	0.06	1	0.29	UG/L
IHSS 203	SOIL GAS	Eqt. Blank	XYLENES	0/7				UG/L
IHSS 203	SOIL GAS	Eqt. Blank	BENZENE	0/7				UG/L
IHSS 203	SOIL GAS	Eqt. Blank	DICHLOROMETHANE	0/7				UG/L

Table J-10
Analytical Results for Equipment Rinses Collected During Landfill Leachate-Groundwater Sampling

SAMPLE TYPE	QC SAMPLE TYPE	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
LEACHATE/GW	Eqt. Rinse	2-BUTANONE	2/2	0.237	0.292	0.265	MG/L
LEACHATE/GW	Eqt. Rinse	1,2-DICHLOROETHENE	1/2	0.101	0.101	0.101	MG/L
LEACHATE/GW	Eqt. Rinse	1,1,1-TRICHLOROETHANE	0/2				
LEACHATE/GW	Eqt. Rinse	ACETONE	2/2	0.163	0.270	0.217	MG/L
LEACHATE/GW	Eqt. Rinse	HYDROGEN SULFIDE	0/2				
LEACHATE/GW	Eqt. Rinse	METHANE	2/2	23.150	52.001	37.576	MG/L
LEACHATE/GW	Eqt. Rinse	METHYLENE CHLORIDE	2/2	0.190	0.241	0.216	MG/L
LEACHATE/GW	Eqt. Rinse	TOLUENE	0/2				
LEACHATE/GW	Eqt. Rinse	TRICHLOROETHENE	2/2	0.006	0.007	0.007	MG/L
LEACHATE/GW	Eqt. Rinse	PARA, META XYLENE	0/2				
LEACHATE/GW	Eqt. Rinse	ORTHO XYLENE	0/2				

Table J-11
Analytical Results for Equipment Rinses Collected During Surface Soil Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SS	Eqt. Rinse	Total	1,1,1-TRICHLOROETHANE	0/1				
SS	Eqt. Rinse	Total	1,1,2,2-TETRACHLOROETHANE	0/1				
SS	Eqt. Rinse	Total	1,1,2-TRICHLOROETHANE	0/1				
SS	Eqt. Rinse	Total	1,1-DICHLOROETHANE	0/1				
SS	Eqt. Rinse	Total	1,1-DICHLOROETHENE	0/1				
SS	Eqt. Rinse	Total	1,2,4-TRICHLOROBENZENE	0/1				
SS	Eqt. Rinse	Total	1,2-DICHLOROBENZENE	0/1				
SS	Eqt. Rinse	Total	1,2-DICHLOROETHANE	0/1				
SS	Eqt. Rinse	Total	1,2-DICHLOROETHENE	0/1				
SS	Eqt. Rinse	Total	1,2-DICHLOROPROPANE	0/1				
SS	Eqt. Rinse	Total	1,3-DICHLOROBENZENE	0/1				
SS	Eqt. Rinse	Total	1,4-DICHLOROBENZENE	0/1				
SS	Eqt. Rinse	Total	2,4,5-TRICHLOROPHENOL	0/1				
SS	Eqt. Rinse	Total	2,4,6-TRICHLOROPHENOL	0/1				
SS	Eqt. Rinse	Total	2,4-DICHLOROPHENOL	0/1				
SS	Eqt. Rinse	Total	2,4-DIMETHYLPHENOL	0/1				
SS	Eqt. Rinse	Total	2,4-DINITROPHENOL	0/1				
SS	Eqt. Rinse	Total	2,4-DINITROTOLUENE	0/1				
SS	Eqt. Rinse	Total	2,6-DINITROTOLUENE	0/1				
SS	Eqt. Rinse	Total	2-BUTANONE	0/1				
SS	Eqt. Rinse	Total	2-CHLORONAPHTHALENE	0/1				
SS	Eqt. Rinse	Total	2-CHLOROPHENOL	0/1				
SS	Eqt. Rinse	Total	2-HEXANONE	0/1				
SS	Eqt. Rinse	Total	2-METHYLNAPHTHALENE	0/1				
SS	Eqt. Rinse	Total	2-METHYLPHENOL	0/1				
SS	Eqt. Rinse	Total	2-NITROANILINE	0/1				
SS	Eqt. Rinse	Total	2-NITROPHENOL	0/1				
SS	Eqt. Rinse	Total	3,3'-DICHLOROBENZIDINE	0/1				
SS	Eqt. Rinse	Total	3-NITROANILINE	0/1				
SS	Eqt. Rinse	Total	4,6-DINITRO-2-METHYLPHENOL	0/1				
SS	Eqt. Rinse	Total	4-BROMOPHENYL PHENYL ETHER	0/1				
SS	Eqt. Rinse	Total	4-CHLORO-3-METHYLPHENOL	0/1				
SS	Eqt. Rinse	Total	4-CHLOROANILINE	0/1				
SS	Eqt. Rinse	Total	4-CHLOROPHENYL PHENYL ETHER	0/1				
SS	Eqt. Rinse	Total	4-METHYL-2-PENTANONE	0/1				
SS	Eqt. Rinse	Total	4-METHYLPHENOL	0/1				

SAMPLE	OC SAMPLE	TYPE	TOTAL/	ANALYTE	DISSOLVED	FREQ.	MINIMUM	MAXIMUM	MEAN	UNITS
SS	Edt. Rinse	4-NITROANILINE	Total	0/1	OF HITS	RESULTS	RESULTS	RESULTS	RESULTS	UNITS
SS	Edt. Rinse	4-NITROPHENOL	Total	0/1						
SS	Edt. Rinse	ACENAPHTHENE	Total	0/1						
SS	Edt. Rinse	ACENAPHTHYLENE	Total	0/1						
SS	Edt. Rinse	ACETONE	Total	0/1						
SS	Edt. Rinse	ALUMINUM	Total	3/12	18.7	43.9	17	0.00223	PC/L	UG/L
SS	Edt. Rinse	AMERICIUM-241	Total	12/12	-0.00165	0.006264	0.006264	0.006264	0.006264	UG/L
SS	Edt. Rinse	ANTIMONY	Total	0/13						
SS	Edt. Rinse	ANTHRACENE	Total	0/1						
SS	Edt. Rinse	AROCOLOR-1016	Total	0/5						
SS	Edt. Rinse	AROCOLOR-1221	Total	0/5						
SS	Edt. Rinse	AROCOLOR-1232	Total	0/5						
SS	Edt. Rinse	AROCOLOR-1242	Total	0/5						
SS	Edt. Rinse	AROCOLOR-1248	Total	0/5						
SS	Edt. Rinse	AROCOLOR-1254	Total	0/5						
SS	Edt. Rinse	AROCOLOR-1260	Total	0/5						
SS	Edt. Rinse	ARSENIC	Total	2/12	0.7	24.3	2.6	2.6	2.6	UG/L
SS	Edt. Rinse	BENZENE	Total	0/1						
SS	Edt. Rinse	BENZO(a)ANTHRACENE	Total	0/1						
SS	Edt. Rinse	BENZO(b)FLUORANTHENE	Total	0/1						
SS	Edt. Rinse	BENZO(g,h,i)PERYLENE	Total	0/1						
SS	Edt. Rinse	BENZO(k)FLUORANTHENE	Total	0/1						
SS	Edt. Rinse	BENZOIC ACID	Total	0/1						
SS	Edt. Rinse	BENZYL ALCOHOL	Total	0/1						
SS	Edt. Rinse	BERYLLIUM	Total	1/13	0.8	1.2	0.5	0.5	0.5	UG/L
SS	Edt. Rinse	BIS(2-CHLOROETHYL)ETHER	Total	0/1						
SS	Edt. Rinse	BIS(2-CHLOROISOPROPYL)ETHER	Total	0/1						
SS	Edt. Rinse	BROMOFORM	Total	0/1						
SS	Edt. Rinse	BROMODICHLOROMETHANE	Total	0/1						
SS	Edt. Rinse	BUTYL BENZYL PHTHALATE	Total	0/1						
SS	Edt. Rinse	CADMIUM	Total	0/13						
SS	Edt. Rinse	CALCIUM	Total	13/13	32.9	255	90	90	90	UG/L

Analytical Results for Equipment Rinses Collected During Surface Soil Sampling

Table J-11

Table J-11
Analytical Results for Equipment Rinses Collected During Surface Soil Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SS	Eqt. Rinse	Total	CARBON DISULFIDE	0/1				
SS	Eqt. Rinse	Total	CARBON TETRACHLORIDE	0/1				
SS	Eqt. Rinse	Total	CESIUM	0/5				
SS	Eqt. Rinse	Total	CESIUM-134	3/3	-0.539	0.06383	-0.230	PCI/L
SS	Eqt. Rinse	Total	CESIUM-137	13/13	-0.344	0.6184	0.03	PCI/L
SS	Eqt. Rinse	Total	CHLOROBENZENE	0/1				
SS	Eqt. Rinse	Total	CHLOROETHANE	0/1				
SS	Eqt. Rinse	Total	CHLOROFORM	0/1				
SS	Eqt. Rinse	Total	CHLOROMETHANE	0/1				
SS	Eqt. Rinse	Total	CHROMIUM	0/13				
SS	Eqt. Rinse	Total	CHRYSENE	0/1				
SS	Eqt. Rinse	Total	COBALT	0/10				
SS	Eqt. Rinse	Total	COPPER	3/12	2.4	6.4	2	UG/L
SS	Eqt. Rinse	Total	DI-n-BUTYL PHTHALATE	0/1				
SS	Eqt. Rinse	Total	DI-n-OCTYL PHTHALATE	0/1				
SS	Eqt. Rinse	Total	DIBENZO(a,h)ANTHRACENE	0/1				
SS	Eqt. Rinse	Total	DIBENZOFURAN	0/1				
SS	Eqt. Rinse	Total	DIBROMOCHLOROMETHANE	0/1				
SS	Eqt. Rinse	Total	DIETHYL PHTHALATE	0/1				
SS	Eqt. Rinse	Total	DIMETHYL PHTHALATE	0/1				
SS	Eqt. Rinse	Total	ETHYLBENZENE	0/1				
SS	Eqt. Rinse	Total	FLUORANTHENE	0/1				
SS	Eqt. Rinse	Total	FLUORENE	0/1				
SS	Eqt. Rinse	Total	GROSS ALPHA	13/13	-0.0533	0.2729	0.048	PCI/L
SS	Eqt. Rinse	Total	GROSS BETA	13/13	-0.114	2.809	0.73	PCI/L
SS	Eqt. Rinse	Total	HEXACHLOROBENZENE	0/1				
SS	Eqt. Rinse	Total	HEXACHLOROBUTADIENE	0/1				
SS	Eqt. Rinse	Total	HEXACHLOROCYCLOPENTADIENE	0/1				
SS	Eqt. Rinse	Total	HEXACHLOROETHANE	0/1				
SS	Eqt. Rinse	Total	INDENO(1,2,3-cd)PYRENE	0/1				
SS	Eqt. Rinse	Total	IRON	13/13	9.4	55.8	25	UG/L
SS	Eqt. Rinse	Total	ISOPHORONE	0/1				
SS	Eqt. Rinse	Total	LEAD	0/12				
SS	Eqt. Rinse	Total	LITHIUM	0/5				
SS	Eqt. Rinse	Total	MAGNESIUM	4/11	29.6	59	32	UG/L
SS	Eqt. Rinse	Total	MANGANESE	3/13	1.5	2.4	1.2	UG/L

Table J-11
Analytical Results for Equipment Rinses Collected During Surface Soil Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SS	Eqt. Rinse	Total	MERCURY	0/12				
SS	Eqt. Rinse	Total	METHYLENE CHLORIDE	0/1				
SS	Eqt. Rinse	Total	MOLYBDENUM	0/5				
SS	Eqt. Rinse	Total	N-NITROSO-DI-n-PROPYLAMINE	0/1				
SS	Eqt. Rinse	Total	N-NITROSODIPHENYLAMINE	0/1				
SS	Eqt. Rinse	Total	NAPHTHALENE	0/1				
SS	Eqt. Rinse	Total	NICKEL	0/13				
SS	Eqt. Rinse	Total	NITRATE/NITRITE	1/10	50.00	100.0	42.5	UG/L
SS	Eqt. Rinse	Total	NITRATE/NITRITE (HISTORICAL CODE)	0/2				
SS	Eqt. Rinse	Total	NITROBENZENE	0/1				
SS	Eqt. Rinse	Total	PENTACHLOROPHENOL	0/1				
SS	Eqt. Rinse	Total	PHENANTHRENE	0/1				
SS	Eqt. Rinse	Total	PHENOL	0/1				
SS	Eqt. Rinse	Total	PLUTONIUM-239/240	13/13	-0.00173	0.00796	0.00130	PCI/L
SS	Eqt. Rinse	Total	POTASSIUM	2/10	779	1010	541	UG/L
SS	Eqt. Rinse	Total	PYRENE	0/1				
SS	Eqt. Rinse	Total	SELENIUM	1/13	1.1	4.5	0.9	UG/L
SS	Eqt. Rinse	Total	SILICON	5/5	53.6	84.5	75.5	UG/L
SS	Eqt. Rinse	Total	SILVER	0/13				
SS	Eqt. Rinse	Total	SODIUM	13/13	115	530	179	UG/L
SS	Eqt. Rinse	Total	STRONTIUM	0/5				
SS	Eqt. Rinse	Total	STRONTIUM-89,90	12/12	-0.189	1.338	0.274	PCI/L
SS	Eqt. Rinse	Total	STYRENE	0/1				
SS	Eqt. Rinse	Total	TETRACHLOROETHENE	0/1				
SS	Eqt. Rinse	Total	THALLIUM	0/13				
SS	Eqt. Rinse	Total	TIN	0/5				
SS	Eqt. Rinse	Total	TOLUENE	0/1				
SS	Eqt. Rinse	Total	TOTAL ORGANIC CARBON	2/14	1000	2000	643	UG/L
SS	Eqt. Rinse	Total	TOTAL XYLEMES	0/1				
SS	Eqt. Rinse	Total	TRICHLOROETHENE	0/1				
SS	Eqt. Rinse	Total	TRITIUM	12/12	-288	131.6	-18	PCI/L
SS	Eqt. Rinse	Total	URANIUM-233,-234	13/13	-0.0774	0.253	0.041	PCI/L
SS	Eqt. Rinse	Total	URANIUM-235	13/13	-0.0183	0.1379	0.026	PCI/L
SS	Eqt. Rinse	Total	URANIUM-238	13/13	-0.0284	0.1848	0.036	PCI/L
SS	Eqt. Rinse	Total	VANADIUM	0/13				
SS	Eqt. Rinse	Total	VINYL ACETATE	0/1				

Table J-11
Analytical Results for Equipment Rinses Collected During Surface Soil Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SS	Eqt. Rinse	Total	ZINC	7/13	2.1	6.3	3	UG/L
SS	Eqt. Rinse	Total	cis-1,3-DICHLOROPROPENE	0/1				

Table J-12
Analytical Results for Equipment Rinses Collected During Subsurface Geologic Material Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
BH	Eqt. Rinse	Dissolved	AMERICIUM-241	1/1	0.004	0.004	0.004	PCI/L
BH	Eqt. Rinse	Dissolved	PLUTONIUM-239/240	1/1	0.0074	0.0074	0.0074	PCI/L
BH	Eqt. Rinse	Dissolved	URANIUM-233,-234	1/1	0.132	0.132	0.132	PCI/L
BH	Eqt. Rinse	Dissolved	URANIUM-235	1/1	0.056	0.056	0.056	PCI/L
BH	Eqt. Rinse	Dissolved	URANIUM-238	1/1	0.049	0.049	0.049	PCI/L
BH	Eqt. Rinse	Total	1,1,1-TRICHLOROETHANE	0/10				
BH	Eqt. Rinse	Total	1,1,2,2-TETRACHLOROETHANE	0/10				
BH	Eqt. Rinse	Total	1,1,2-TRICHLOROETHANE	0/10				
BH	Eqt. Rinse	Total	1,1-DICHLOROETHANE	0/10				
BH	Eqt. Rinse	Total	1,1-DICHLOROETHENE	0/10				
BH	Eqt. Rinse	Total	1,2,4-TRICHLOROBENZENE	0/10				
BH	Eqt. Rinse	Total	1,2-DICHLOROBENZENE	0/10				
BH	Eqt. Rinse	Total	1,2-DICHLOROETHANE	0/10				
BH	Eqt. Rinse	Total	1,2-DICHLOROETHENE	0/10				
BH	Eqt. Rinse	Total	1,2-DICHLOROPROPANE	0/10				
BH	Eqt. Rinse	Total	1,3-DICHLOROBENZENE	0/10				
BH	Eqt. Rinse	Total	1,4-DICHLOROBENZENE	0/10				
BH	Eqt. Rinse	Total	2,4,5-TRICHLOROPHENOL	0/10				
BH	Eqt. Rinse	Total	2,4,6-TRICHLOROPHENOL	0/10				
BH	Eqt. Rinse	Total	2,4-DICHLOROPHENOL	0/10				
BH	Eqt. Rinse	Total	2,4-DIMETHYLPHENOL	0/10				
BH	Eqt. Rinse	Total	2,4-DINITROPHENOL	0/10				
BH	Eqt. Rinse	Total	2,4-DINITROTOLUENE	0/10				
BH	Eqt. Rinse	Total	2,6-DINITROTOLUENE	0/10				
BH	Eqt. Rinse	Total	2-BUTANONE	0/10				
BH	Eqt. Rinse	Total	2-CHLORONAPHTHALENE	0/10				
BH	Eqt. Rinse	Total	2-CHLOROPHENOL	0/10				
BH	Eqt. Rinse	Total	2-HEXANONE	0/10				
BH	Eqt. Rinse	Total	2-METHYLNAPHTHALENE	0/10				
BH	Eqt. Rinse	Total	2-METHYLPHENOL	0/10				
BH	Eqt. Rinse	Total	2-NITROANILINE	0/10				
BH	Eqt. Rinse	Total	2-NITROPHENOL	0/10				
BH	Eqt. Rinse	Total	3,3'-DICHLOROBENZIDINE	0/10				
BH	Eqt. Rinse	Total	3-NITROANILINE	0/10				

Table J-12
Analytical Results for Equipment Rinses Collected During Subsurface Geologic Material Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
BH	Eqt. Rinse	Total	4,4'-DDD	0/4				
BH	Eqt. Rinse	Total	4,4'-DDE	0/4				
BH	Eqt. Rinse	Total	4,4'-DDT	0/4				
BH	Eqt. Rinse	Total	4,6-DINITRO-2-METHYLPHENOL	0/10				
BH	Eqt. Rinse	Total	4-BROMOPHENYL PHENYL ETHER	0/10				
BH	Eqt. Rinse	Total	4-CHLORO-3-METHYLPHENOL	0/10				
BH	Eqt. Rinse	Total	4-CHLOROANILINE	0/10				
BH	Eqt. Rinse	Total	4-CHLOROPHENYL PHENYL ETHER	0/10				
BH	Eqt. Rinse	Total	4-METHYL-2-PENTANONE	0/10				
BH	Eqt. Rinse	Total	4-METHYLPHENOL	0/10				
BH	Eqt. Rinse	Total	4-NITROANILINE	0/10				
BH	Eqt. Rinse	Total	4-NITROPHENOL	0/10				
BH	Eqt. Rinse	Total	ACENAPHTHENE	0/10				
BH	Eqt. Rinse	Total	ACENAPHTHYLENE	0/10				
BH	Eqt. Rinse	Total	ACETONE	5/10	10	28	10	UG/L
BH	Eqt. Rinse	Total	ALDRIN	0/4				
BH	Eqt. Rinse	Total	ALUMINUM	2/10	31.7	61	24	UG/L
BH	Eqt. Rinse	Total	AMERICIUM-241	5/5	-0.000412	0.006	0.002	PCI/L
BH	Eqt. Rinse	Total	ANTHRAZENE	0/10				
BH	Eqt. Rinse	Total	ANTIMONY	1/10	19.7	23	11	UG/L
BH	Eqt. Rinse	Total	AROCLOR-1016	0/10				
BH	Eqt. Rinse	Total	AROCLOR-1221	0/10				
BH	Eqt. Rinse	Total	AROCLOR-1232	0/10				
BH	Eqt. Rinse	Total	AROCLOR-1242	0/10				
BH	Eqt. Rinse	Total	AROCLOR-1248	0/10				
BH	Eqt. Rinse	Total	AROCLOR-1254	0/10				
BH	Eqt. Rinse	Total	AROCLOR-1260	0/10				
BH	Eqt. Rinse	Total	ARSENIC	0/10				
BH	Eqt. Rinse	Total	BARIUM	0/10				
BH	Eqt. Rinse	Total	BENZENE	0/10				
BH	Eqt. Rinse	Total	BENZO(a)ANTHRACENE	0/10				
BH	Eqt. Rinse	Total	BENZO(a)PYRENE	0/10				
BH	Eqt. Rinse	Total	BENZO(b)FLUORANTHENE	0/10				
BH	Eqt. Rinse	Total	BENZO(ghi)PERYLENE	0/10				

Table J-12
Analytical Results for Equipment Rinses Collected During Subsurface Geologic Material Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
BH	Eqt. Rinse	Total	BENZO(k)FLUORANTHENE	0/10				
BH	Eqt. Rinse	Total	BENZOIC ACID	0/10				
BH	Eqt. Rinse	Total	BENZYL ALCOHOL	0/10				
BH	Eqt. Rinse	Total	BERYLLIUM	2/10	0.9	1.1	0.6	UG/L
BH	Eqt. Rinse	Total	BIS(2-CHLOROETHOXY)METHANE	0/10				
BH	Eqt. Rinse	Total	BIS(2-CHLOROETHYL)ETHER	0/10				
BH	Eqt. Rinse	Total	BIS(2-CHLOROISOPROPYL)ETHER	0/10				
BH	Eqt. Rinse	Total	BIS(2-ETHYLHEXYL)PHTHALATE	0/10				
BH	Eqt. Rinse	Total	BROMODICHLOROMETHANE	0/10				
BH	Eqt. Rinse	Total	BROMOFORM	0/10				
BH	Eqt. Rinse	Total	BROMOMETHANE	0/8				
BH	Eqt. Rinse	Total	BUTYL BENZYL PHTHALATE	0/10				
BH	Eqt. Rinse	Total	CADMIUM	1/10	2.7	2.9	1.5	UG/L
BH	Eqt. Rinse	Total	CALCIUM	9/10	30.8	104	56	UG/L
BH	Eqt. Rinse	Total	CARBON DISULFIDE	0/10				
BH	Eqt. Rinse	Total	CARBON TETRACHLORIDE	0/10				
BH	Eqt. Rinse	Total	CESIUM	0/10				
BH	Eqt. Rinse	Total	CESIUM-134	1/1	-0.22	-0.22	-0.22	PCI/L
BH	Eqt. Rinse	Total	CESIUM-137	7/7	-0.329	0.7216	0.196	PCI/L
BH	Eqt. Rinse	Total	CHLOROBENZENE	0/10				
BH	Eqt. Rinse	Total	CHLOROETHANE	0/10				
BH	Eqt. Rinse	Total	CHLOROFORM	0/10				
BH	Eqt. Rinse	Total	CHLOROMETHANE	0/10				
BH	Eqt. Rinse	Total	CHROMIUM	2/10	2.6	5.5	1.9	UG/L
BH	Eqt. Rinse	Total	CHRYSENE	0/10				
BH	Eqt. Rinse	Total	COBALT	0/10				
BH	Eqt. Rinse	Total	COPPER	2/10	2.9	5.4	2.0	UG/L
BH	Eqt. Rinse	Total	DI-n-BUTYL PHTHALATE	0/10				
BH	Eqt. Rinse	Total	DI-n-OCTYL PHTHALATE	0/10				
BH	Eqt. Rinse	Total	DIBENZO(a,h)ANTHRACENE	0/10				
BH	Eqt. Rinse	Total	DIBENZOFURAN	0/10				
BH	Eqt. Rinse	Total	DIBROMOCHLOROMETHANE	0/10				
BH	Eqt. Rinse	Total	DIELDRIN	0/4				
BH	Eqt. Rinse	Total	DIETHYL PHTHALATE	0/10				

Table J-12
Analytical Results for Equipment Rinses Collected During Subsurface Geologic Material Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
BH	Eqt. Rinse	Total	DIMETHYL PHTHALATE	0/10				
BH	Eqt. Rinse	Total	ENDOSULFAN I	0/4				
BH	Eqt. Rinse	Total	ENDOSULFAN II	0/4				
BH	Eqt. Rinse	Total	ENDOSULFAN SULFATE	0/4				
BH	Eqt. Rinse	Total	ENDRIN	0/4				
BH	Eqt. Rinse	Total	ENDRIN KETONE	0/4				
BH	Eqt. Rinse	Total	ETHYLBENZENE	0/10				
BH	Eqt. Rinse	Total	FLUORANTHENE	0/10				
BH	Eqt. Rinse	Total	FLUORENE	0/10				
BH	Eqt. Rinse	Total	GROSS ALPHA	7/7	-0.0437	0.09893	0.004	PCI/L
BH	Eqt. Rinse	Total	GROSS BETA	7/7	-0.394	0.9507	0.277	PCI/L
BH	Eqt. Rinse	Total	HEPTACHLOR	0/4				
BH	Eqt. Rinse	Total	HEPTACHLOR EPOXIDE	0/4				
BH	Eqt. Rinse	Total	HEXACHLOROBENZENE	0/10				
BH	Eqt. Rinse	Total	HEXACHLOROBUTADIENE	0/10				
BH	Eqt. Rinse	Total	HEXACHLOROCYCLOPENTADIENE	0/8				
BH	Eqt. Rinse	Total	HEXACHLOROETHANE	0/10				
BH	Eqt. Rinse	Total	INDENO(1,2,3-cd)PYRENE	0/10				
BH	Eqt. Rinse	Total	IRON	10/10	9.8	40.2	19.7	UG/L
BH	Eqt. Rinse	Total	ISOPHORONE	0/10				
BH	Eqt. Rinse	Total	LEAD	0/10				
BH	Eqt. Rinse	Total	LITHIUM	0/10				
BH	Eqt. Rinse	Total	MAGNESIUM	1/10	38.9	50.7	22.6	UG/L
BH	Eqt. Rinse	Total	MANGANESE	0/10				
BH	Eqt. Rinse	Total	MERCURY	0/10				
BH	Eqt. Rinse	Total	METHOXYCHLOR	0/4				
BH	Eqt. Rinse	Total	METHYLENE CHLORIDE	1/10	5	12	3	UG/L
BH	Eqt. Rinse	Total	MOLYBDENUM	0/10				
BH	Eqt. Rinse	Total	N-NITROSO-DI-n-PROPYLAMINE	0/10				
BH	Eqt. Rinse	Total	N-NITROSODIPHENYLAMINE	0/10				
BH	Eqt. Rinse	Total	NAPHTHALENE	0/10				
BH	Eqt. Rinse	Total	NICKEL	0/10				
BH	Eqt. Rinse	Total	NITRATE	1/9	100.0	469000	52156	UG/L
BH	Eqt. Rinse	Total	NITRATE/NITRITE	1/10	50.00	469000	46943	UG/L

Table J-12
Analytical Results for Equipment Rinses Collected During Subsurface Geologic Material Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
BH	Eqt. Rinse	Total	NITROBENZENE	0/10				
BH	Eqt. Rinse	Total	PENTACHLOROPHENOL	0/10				
BH	Eqt. Rinse	Total	PHENANTHRENE	0/10				
BH	Eqt. Rinse	Total	PHENOL	0/10				
BH	Eqt. Rinse	Total	PLUTONIUM-239/240	9/9	-0.000731	0.002315	0.001000	PCI/L
BH	Eqt. Rinse	Total	POTASSIUM	2/10	779	1160	538	UG/L
BH	Eqt. Rinse	Total	PYRENE	0/10				
BH	Eqt. Rinse	Total	SELENIUM	1/9	1.3	1.3	0.7	UG/L
BH	Eqt. Rinse	Total	SILICON	10/10	57.3	136	77	UG/L
BH	Eqt. Rinse	Total	SILVER	1/10	3.6	4.6	2.1	UG/L
BH	Eqt. Rinse	Total	SODIUM	10/10	91.4	174	131	UG/L
BH	Eqt. Rinse	Total	STRONTIUM	0/10				
BH	Eqt. Rinse	Total	STRONTIUM-89,90	9/9	-0.263	0.6748	0.38	PCI/L
BH	Eqt. Rinse	Total	STYRENE	0/10				
BH	Eqt. Rinse	Total	SULFIDE	0/10				
BH	Eqt. Rinse	Total	TETRACHLOROETHENE	0/10				
BH	Eqt. Rinse	Total	THALLIUM	0/10				
BH	Eqt. Rinse	Total	TIN	2/10	16.7	83.5	14.0	UG/L
BH	Eqt. Rinse	Total	TOLUENE	0/10				
BH	Eqt. Rinse	Total	TOTAL ORGANIC CARBON	0/10				
BH	Eqt. Rinse	Total	TOTAL RADIOCESIUM	3/3	0.46	0.936	0.76	PCI/L
BH	Eqt. Rinse	Total	TOTAL SUSPENDED SOLIDS	0/9				
BH	Eqt. Rinse	Total	TOTAL XYLENES	0/9				
BH	Eqt. Rinse	Total	TOXAPHENE	0/4				
BH	Eqt. Rinse	Total	TRICHLOROETHENE	0/10				
BH	Eqt. Rinse	Total	TRITIUM	10/10	-66.5	76	-8	PCI/L
BH	Eqt. Rinse	Total	URANIUM-233,-234	9/9	-0.0162	0.28	0.08	PCI/L
BH	Eqt. Rinse	Total	URANIUM-235	9/9	-0.0227	0.114	0.01	PCI/L
BH	Eqt. Rinse	Total	URANIUM-238	9/9	-0.0121	0.1774	0.053	PCI/L
BH	Eqt. Rinse	Total	VANADIUM	0/10				
BH	Eqt. Rinse	Total	VINYL ACETATE	0/7				
BH	Eqt. Rinse	Total	VINYL CHLORIDE	0/10				
BH	Eqt. Rinse	Total	ZINC	4/10	2.4	7.9	2.9	UG/L
BH	Eqt. Rinse	Total	alpha-BHC	0/4				

Table J-12
Analytical Results for Equipment Rinses Collected During Subsurface Geologic Material Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
BH	Eqt. Rinse	Total	alpha-CHLORDANE	0/4				
BH	Eqt. Rinse	Total	beta-BHC	0/4				
BH	Eqt. Rinse	Total	cis-1,3-DICHLOROPROPENE	0/10				
BH	Eqt. Rinse	Total	delta-BHC	0/4				
BH	Eqt. Rinse	Total	gamma-BHC (LINDANE)	0/4				
BH	Eqt. Rinse	Total	gamma-CHLORDANE	0/4				
BH	Eqt. Rinse	Total	pH	10/10	5.5	9.1	7	PH
BH	Eqt. Rinse	Total	trans-1,3-DICHLOROPROPENE	0/10				

Table J-13
Analytical Results for Equipment Rinses Collected During Sediment Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SD	Eqt. Rinse	Total	1,1,1-TRICHLOROETHANE	0/1				
SD	Eqt. Rinse	Total	1,1,2,2-TETRACHLOROETHANE	0/1				
SD	Eqt. Rinse	Total	1,1,2-TRICHLOROETHANE	0/1				
SD	Eqt. Rinse	Total	1,1-DICHLOROETHANE	0/1				
SD	Eqt. Rinse	Total	1,1-DICHLOROETHENE	0/1				
SD	Eqt. Rinse	Total	1,2,4-TRICHLOROBENZENE	0/1				
SD	Eqt. Rinse	Total	1,2-DICHLOROBENZENE	0/1				
SD	Eqt. Rinse	Total	1,2-DICHLOROETHANE	0/1				
SD	Eqt. Rinse	Total	1,2-DICHLOROETHENE	0/1				
SD	Eqt. Rinse	Total	1,2-DICHLOROPROPANE	0/1				
SD	Eqt. Rinse	Total	1,3-DICHLOROBENZENE	0/1				
SD	Eqt. Rinse	Total	1,4-DICHLOROBENZENE	0/1				
SD	Eqt. Rinse	Total	2,4,5-TRICHLOROPHENOL	0/1				
SD	Eqt. Rinse	Total	2,4,6-TRICHLOROPHENOL	0/1				
SD	Eqt. Rinse	Total	2,4-DICHLOROPHENOL	0/1				
SD	Eqt. Rinse	Total	2,4-DIMETHYLPHENOL	0/1				
SD	Eqt. Rinse	Total	2,4-DINITROPHENOL	0/1				
SD	Eqt. Rinse	Total	2,4-DINITROTOLUENE	0/1				
SD	Eqt. Rinse	Total	2,6-DINITROTOLUENE	0/1				
SD	Eqt. Rinse	Total	2-BUTANONE	0/1				
SD	Eqt. Rinse	Total	2-CHLORONAPHTHALENE	0/1				
SD	Eqt. Rinse	Total	2-CHLOROPHENOL	0/1				
SD	Eqt. Rinse	Total	2-HEXANONE	0/1				
SD	Eqt. Rinse	Total	2-METHYLNAPHTHALENE	0/1				
SD	Eqt. Rinse	Total	2-METHYLPHENOL	0/1				
SD	Eqt. Rinse	Total	2-NITROANILINE	0/1				
SD	Eqt. Rinse	Total	2-NITROPHENOL	0/1				
SD	Eqt. Rinse	Total	3,3'-DICHLOROBENZIDINE	0/1				
SD	Eqt. Rinse	Total	3-NITROANILINE	0/1				
SD	Eqt. Rinse	Total	4,6-DINITRO-2-METHYLPHENOL	0/1				
SD	Eqt. Rinse	Total	4-BROMOPHENYL PHENYL ETHER	0/1				
SD	Eqt. Rinse	Total	4-CHLORO-3-METHYLPHENOL	0/1				
SD	Eqt. Rinse	Total	4-CHLOROANILINE	0/1				
SD	Eqt. Rinse	Total	4-CHLOROPHENYL PHENYL ETHER	0/1				

Table J-13
Analytical Results for Equipment Rinses Collected During Sediment Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SD	Eqt. Rinse	Total	4-METHYL-2-PENTANONE	0/1				
SD	Eqt. Rinse	Total	4-METHYLPHENOL	0/1				
SD	Eqt. Rinse	Total	4-NITROANILINE	0/1				
SD	Eqt. Rinse	Total	4-NITROPHENOL	0/1				
SD	Eqt. Rinse	Total	ACENAPHTHENE	0/1				
SD	Eqt. Rinse	Total	ACENAPHTHYLENE	0/1				
SD	Eqt. Rinse	Total	ACETONE	1/1	13	13	13	UG/L
SD	Eqt. Rinse	Total	ALUMINUM	0/1				
SD	Eqt. Rinse	Total	AMERICIUM-241	1/1	0.004914	0.004914	0.004914	PCI/L
SD	Eqt. Rinse	Total	ANTHRAACENE	0/1				
SD	Eqt. Rinse	Total	ANTIMONY	0/1				
SD	Eqt. Rinse	Total	ARSENIC	1/1	1.3	1.3	1.3	UG/L
SD	Eqt. Rinse	Total	BARIUM	0/1				
SD	Eqt. Rinse	Total	BENZENE	0/1				
SD	Eqt. Rinse	Total	BENZO(a)ANTHRAACENE	0/1				
SD	Eqt. Rinse	Total	BENZO(a)PYRENE	0/1				
SD	Eqt. Rinse	Total	BENZO(b)FLUORANTHENE	0/1				
SD	Eqt. Rinse	Total	BENZO(ghi)PERYLENE	0/1				
SD	Eqt. Rinse	Total	BENZO(k)FLUORANTHENE	0/1				
SD	Eqt. Rinse	Total	BENZYL ALCOHOL	0/1				
SD	Eqt. Rinse	Total	BERYLLIUM	0/1				
SD	Eqt. Rinse	Total	BIS(2-CHLOROETHOXY)METHANE	0/1				
SD	Eqt. Rinse	Total	BIS(2-CHLOROETHYL)ETHER	0/1				
SD	Eqt. Rinse	Total	BIS(2-CHLOROISOPROPYL)ETHER	0/1				
SD	Eqt. Rinse	Total	BIS(2-ETHYLHEXYL)PHTHALATE	0/1				
SD	Eqt. Rinse	Total	BROMODICHLOROMETHANE	0/1				
SD	Eqt. Rinse	Total	BROMOFORM	0/1				
SD	Eqt. Rinse	Total	BROMOMETHANE	0/1				
SD	Eqt. Rinse	Total	BUTYL BENZYL PHTHALATE	0/1				
SD	Eqt. Rinse	Total	CADMIUM	1/1	2.9	2.9	2.9	UG/L
SD	Eqt. Rinse	Total	CALCIUM	0/1				
SD	Eqt. Rinse	Total	CARBON DISULFIDE	0/1				
SD	Eqt. Rinse	Total	CARBON TETRACHLORIDE	0/1				
SD	Eqt. Rinse	Total	CESIUM	0/1				

Table J-13
Analytical Results for Equipment Rinses Collected During Sediment Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SD	Eqt. Rinse	Total	CESIUM-137	1/1	-0.422	-0.422	-0.422	PCI/L
SD	Eqt. Rinse	Total	CHLOROBENZENE	0/1				
SD	Eqt. Rinse	Total	CHLOROETHANE	0/1				
SD	Eqt. Rinse	Total	CHLOROFORM	0/1				
SD	Eqt. Rinse	Total	CHLOROMETHANE	0/1				
SD	Eqt. Rinse	Total	CHROMIUM	0/1				
SD	Eqt. Rinse	Total	CHRYSENE	0/1				
SD	Eqt. Rinse	Total	COBALT	0/1				
SD	Eqt. Rinse	Total	COPPER	0/1				
SD	Eqt. Rinse	Total	DI-n-BUTYL PHTHALATE	0/1				
SD	Eqt. Rinse	Total	DI-n-OCTYL PHTHALATE	0/1				
SD	Eqt. Rinse	Total	DIBENZO(a,h)ANTHRACENE	0/1				
SD	Eqt. Rinse	Total	DIBENZOFURAN	0/1				
SD	Eqt. Rinse	Total	DIBROMOCHLOROMETHANE	0/1				
SD	Eqt. Rinse	Total	DIETHYL PHTHALATE	0/1				
SD	Eqt. Rinse	Total	DIMETHYL PHTHALATE	0/1				
SD	Eqt. Rinse	Total	ETHYLBENZENE	0/1				
SD	Eqt. Rinse	Total	FLUORANTHENE	0/1				
SD	Eqt. Rinse	Total	FLUORENE	0/1				
SD	Eqt. Rinse	Total	GROSS ALPHA	1/1	-0.0584	-0.0584	-0.0584	PCI/L
SD	Eqt. Rinse	Total	GROSS BETA	1/1	0.3599	0.3599	0.3599	PCI/L
SD	Eqt. Rinse	Total	HEXAChLOROBENZENE	0/1				
SD	Eqt. Rinse	Total	HEXAChLOROBUTADIENE	0/1				
SD	Eqt. Rinse	Total	HEXAChLOROCYCLOPENTADIENE	0/1				
SD	Eqt. Rinse	Total	HEXAChLOROETHANE	0/1				
SD	Eqt. Rinse	Total	INDENO(1,2,3-cd)PYRENE	0/1				
SD	Eqt. Rinse	Total	IRON	1/1	26.9	26.9	26.9	UG/L
SD	Eqt. Rinse	Total	ISOPHORONE	0/1				
SD	Eqt. Rinse	Total	LEAD	0/1				
SD	Eqt. Rinse	Total	LITHIUM	0/1				
SD	Eqt. Rinse	Total	MAGNESIUM	0/1				
SD	Eqt. Rinse	Total	MANGANESE	0/1				
SD	Eqt. Rinse	Total	MERCURY	0/1				
SD	Eqt. Rinse	Total	METHYLENE CHLORIDE	0/1				

Table J-13
Analytical Results for Equipment Rinses Collected During Sediment Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SD	Eqt. Rinse	Total	MOLYBDENUM	0/1				
SD	Eqt. Rinse	Total	N-NITROSO-DI-n-PROPYLAMINE	0/1				
SD	Eqt. Rinse	Total	N-NITROSODIPHENYLAMINE	0/1				
SD	Eqt. Rinse	Total	NAPHTHALENE	0/1				
SD	Eqt. Rinse	Total	NICKEL	0/1				
SD	Eqt. Rinse	Total	NITRATE	0/1				
SD	Eqt. Rinse	Total	NITRATE/NITRITE	0/1				
SD	Eqt. Rinse	Total	NITROBENZENE	0/1				
SD	Eqt. Rinse	Total	PENTACHLOROPHENOL	0/1				
SD	Eqt. Rinse	Total	PHENANTHRENE	0/1				
SD	Eqt. Rinse	Total	PHENOL	0/1				
SD	Eqt. Rinse	Total	PLUTONIUM-239/240	1/1	0	0		PCI/L
SD	Eqt. Rinse	Total	POTASSIUM	0/1				
SD	Eqt. Rinse	Total	PYRENE	0/1				
SD	Eqt. Rinse	Total	SELENIUM	0/1				
SD	Eqt. Rinse	Total	SILICON	1/1	75.9	75.9	75.9	UG/L
SD	Eqt. Rinse	Total	SILVER	0/1				
SD	Eqt. Rinse	Total	SODIUM	1/1	167	167	167	UG/L
SD	Eqt. Rinse	Total	STRONTIUM	0/1				
SD	Eqt. Rinse	Total	STRONTIUM-89,90	1/1	0.2525	0.2525	0.2525	PCI/L
SD	Eqt. Rinse	Total	STYRENE	0/1				
SD	Eqt. Rinse	Total	TETRACHLOROETHENE	0/1				
SD	Eqt. Rinse	Total	THALLIUM	0/1				
SD	Eqt. Rinse	Total	TIN	0/1				
SD	Eqt. Rinse	Total	TOLUENE	0/1				
SD	Eqt. Rinse	Total	TOTAL ORGANIC CARBON	1/1	2000	2000	2000	UG/L
SD	Eqt. Rinse	Total	TOTAL XYLEMES	0/1				
SD	Eqt. Rinse	Total	TRICHLOROETHENE	0/1				
SD	Eqt. Rinse	Total	TRITIUM	1/1	219.8	219.8	219.8	PCI/L
SD	Eqt. Rinse	Total	URANIUM-233,-234	1/1	0.3574	0.3574	0.3574	PCI/L
SD	Eqt. Rinse	Total	URANIUM-235	1/1	0.04588	0.04588	0.04588	PCI/L
SD	Eqt. Rinse	Total	URANIUM-238	1/1	0.227	0.227	0.227	PCI/L
SD	Eqt. Rinse	Total	VANADIUM	0/1				
SD	Eqt. Rinse	Total	VINYL ACETATE	0/1				

Table J-13
Analytical Results for Equipment Rinses Collected During Sediment Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SD	Eqt. Rinse	Total	VINYL CHLORIDE	0/1				
SD	Eqt. Rinse	Total	ZINC	1/1	5	5	5	UG/L
SD	Eqt. Rinse	Total	cis-1,3-DICHLOROPROPENE	0/1				
SD	Eqt. Rinse	Total	pH	1/1	5.5	5.5	5.5	PH
SD	Eqt. Rinse	Total	trans-1,3-DICHLOROPROPENE	0/1				

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Field Blan	Dissolved	ALUMINUM	0/1				
SW	Field Blan	Dissolved	AMERICIUM-241	1/1	0.002	0.002	0.002	PCI/L
SW	Field Blan	Dissolved	ANTIMONY	0/1				
SW	Field Blan	Dissolved	ARSENIC	0/1				
SW	Field Blan	Dissolved	BARIUM	0/1				
SW	Field Blan	Dissolved	BERYLLIUM	0/1				
SW	Field Blan	Dissolved	CADMUM	0/1				
SW	Field Blan	Dissolved	CALCIUM	1/1	82.8	82.8	82.8	UG/L
SW	Field Blan	Dissolved	CESIUM	0/1				
SW	Field Blan	Dissolved	CHROMIUM	0/1				
SW	Field Blan	Dissolved	COBALT	0/1				
SW	Field Blan	Dissolved	COPPER	0/1				
SW	Field Blan	Dissolved	IRON	1/1	53.9	53.9	53.9	UG/L
SW	Field Blan	Dissolved	LEAD	1/1	1.6	1.6	1.6	UG/L
SW	Field Blan	Dissolved	LITHIUM	0/1				
SW	Field Blan	Dissolved	MAGNESIUM	0/1				
SW	Field Blan	Dissolved	MANGANESE	0/1				
SW	Field Blan	Dissolved	MERCURY	0/1				
SW	Field Blan	Dissolved	MOLYBDENUM	0/1				
SW	Field Blan	Dissolved	NICKEL	0/1				
SW	Field Blan	Dissolved	PLUTONIUM-239/240	1/1	0	0		PCI/L
SW	Field Blan	Dissolved	POTASSIUM	0/1				
SW	Field Blan	Dissolved	SELENIUM	0/1				
SW	Field Blan	Dissolved	SILICON	1/1	48.6	48.6	48.6	UG/L
SW	Field Blan	Dissolved	SILVER	0/1				
SW	Field Blan	Dissolved	SODIUM	1/1	196	196	196	UG/L
SW	Field Blan	Dissolved	STRONTIUM	0/1				
SW	Field Blan	Dissolved	STRONTIUM-89,90	1/1	0.713	0.713	0.713	PCI/L
SW	Field Blan	Dissolved	THALLIUM	0/1				
SW	Field Blan	Dissolved	TIN	0/1				
SW	Field Blan	Dissolved	TOTAL RADIOCESIUM	1/1	0.951	0.951	0.951	PCI/L
SW	Field Blan	Dissolved	URANIUM-233,-234	1/1	0.1039	0.1039	0.1039	PCI/L
SW	Field Blan	Dissolved	URANIUM-235	1/1	0	0		PCI/L
SW	Field Blan	Dissolved	URANIUM-238	1/1	0.0792	0.0792	0.0792	PCI/L

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Field Blan	Dissolved	VANADIUM	0/1				
SW	Field Blan	Dissolved	ZINC	1/1	6	6	6	UG/L
SW	Field Blan	Total	ALUMINUM	0/1				
SW	Field Blan	Total	AMERICIUM-241	1/1	0.00355	0.00355	0.00355	PCI/L
SW	Field Blan	Total	ANTIMONY	0/1				
SW	Field Blan	Total	ARSENIC	0/1				
SW	Field Blan	Total	BARIUM	0/1				
SW	Field Blan	Total	BERYLLIUM	1/1	1.2	1.2	1.2	UG/L
SW	Field Blan	Total	CADMUM	0/1				
SW	Field Blan	Total	CALCIUM	0/1				
SW	Field Blan	Total	CESIUM	0/1				
SW	Field Blan	Total	CESIUM-137	1/1	0.354	0.354	0.354	PCI/L
SW	Field Blan	Total	CHROMIUM	0/1				
SW	Field Blan	Total	COBALT	0/1				
SW	Field Blan	Total	COPPER	0/1				
SW	Field Blan	Total	GROSS ALPHA	1/1	0.1119	0.1119	0.1119	PCI/L
SW	Field Blan	Total	GROSS BETA	1/1	0.71	0.71	0.71	PCI/L
SW	Field Blan	Total	IRON	1/1	14.8	14.8	14.8	UG/L
SW	Field Blan	Total	LEAD	0/1				
SW	Field Blan	Total	LITHIUM	0/1				
SW	Field Blan	Total	MAGNESIUM	0/1				
SW	Field Blan	Total	MANGANESE	0/1				
SW	Field Blan	Total	MERCURY	0/1				
SW	Field Blan	Total	MOLYBDENUM	1/1	6.6	6.6	6.6	UG/L
SW	Field Blan	Total	NICKEL	0/1				
SW	Field Blan	Total	NITRATE/NITRITE	0/1				
SW	Field Blan	Total	PLUTONIUM-239/240	1/1	0.000437	0.000437	0.000437	PCI/L
SW	Field Blan	Total	POTASSIUM	0/1				
SW	Field Blan	Total	SELENIUM	0/1				
SW	Field Blan	Total	SILICON	1/1	78.9	78.9	78.9	UG/L
SW	Field Blan	Total	SILVER	0/1				
SW	Field Blan	Total	SODIUM	1/1	121	121	121	UG/L
SW	Field Blan	Total	STRONTIUM	0/1				
SW	Field Blan	Total	STRONTIUM-89,90	1/1	0.352	0.352	0.352	PCI/L

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Field Blan	Total	THALLIUM	0/1				
SW	Field Blan	Total	TIN	0/1				
SW	Field Blan	Total	URANIUM-233,-234	1/1	-0.00454	-0.00454	-0.00454	PCI/L
SW	Field Blan	Total	URANIUM-235	1/1	-0.00908	-0.00908	-0.00908	PCI/L
SW	Field Blan	Total	URANIUM-238	1/1	-0.00454	-0.00454	-0.00454	PCI/L
SW	Field Blan	Total	VANADIUM	0/1				
SW	Field Blan	Total	ZINC	1/1	4.2	4.2	4.2	UG/L
SW	Eqt. Rinse	Dissolved	ALUMINUM	1/3	31.7	42	25	UG/L
SW	Eqt. Rinse	Dissolved	AMERICIUM-241	3/3	0	0.003	0.001	PCI/L
SW	Eqt. Rinse	Dissolved	ANTIMONY	1/3	19.7	23.4	14.4	UG/L
SW	Eqt. Rinse	Dissolved	ARSENIC	0/3				
SW	Eqt. Rinse	Dissolved	BARIUM	0/3				
SW	Eqt. Rinse	Dissolved	BERYLLIUM	1/3	0.9	1.4	0.8	UG/L
SW	Eqt. Rinse	Dissolved	CADMIUM	0/3				
SW	Eqt. Rinse	Dissolved	CALCIUM	2/3	30.8	55.9	41.7	UG/L
SW	Eqt. Rinse	Dissolved	CESIUM	0/3				
SW	Eqt. Rinse	Dissolved	CESIUM-137	2/2	-0.183	0.1417	-0.021	PCI/L
SW	Eqt. Rinse	Dissolved	CHROMIUM	1/3	2.6	3.3	2.0	UG/L
SW	Eqt. Rinse	Dissolved	COBALT	0/3				
SW	Eqt. Rinse	Dissolved	COPPER	2/3	2.9	3.5	2.7	UG/L
SW	Eqt. Rinse	Dissolved	GROSS ALPHA	3/3	-0.0361	0.07513	0.0075	PCI/L
SW	Eqt. Rinse	Dissolved	GROSS BETA	3/3	-0.281	0.8776	0.469	PCI/L
SW	Eqt. Rinse	Dissolved	IRON	2/3	7.5	8.9	6.9	UG/L
SW	Eqt. Rinse	Dissolved	LEAD	0/3				
SW	Eqt. Rinse	Dissolved	LITHIUM	0/3				
SW	Eqt. Rinse	Dissolved	MAGNESIUM	0/3				
SW	Eqt. Rinse	Dissolved	MANGANESE	1/3	2.4	4	2	UG/L
SW	Eqt. Rinse	Dissolved	MERCURY	0/3				
SW	Eqt. Rinse	Dissolved	MOLYBDENUM	0/3				
SW	Eqt. Rinse	Dissolved	NICKEL	0/3				
SW	Eqt. Rinse	Dissolved	PLUTONIUM-239/240	3/3	0	0.002066	0.001	PCI/L
SW	Eqt. Rinse	Dissolved	POTASSIUM	0/3				
SW	Eqt. Rinse	Dissolved	SELENIUM	0/3				
SW	Eqt. Rinse	Dissolved	SILICON	3/3	69.4	106	86	UG/L

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Eqt. Rinse	Dissolved	SILVER	0/3				
SW	Eqt. Rinse	Dissolved	SODIUM	3/3	146	182	160	UG/L
SW	Eqt. Rinse	Dissolved	STRONTIUM	0/3				
SW	Eqt. Rinse	Dissolved	STRONTIUM-89,90	3/3	0.269	0.791	0.481	PCI/L
SW	Eqt. Rinse	Dissolved	THALLIUM	0/2				
SW	Eqt. Rinse	Dissolved	TIN	0/3				
SW	Eqt. Rinse	Dissolved	TOTAL RADIOCESIUM	1/1	0.994	0.994	0.994	PCI/L
SW	Eqt. Rinse	Dissolved	URANIUM-233,-234	2/2	0.00208	0.16	0.08	PCI/L
SW	Eqt. Rinse	Dissolved	URANIUM-235	2/2	0	0.0292	0.0146	PCI/L
SW	Eqt. Rinse	Dissolved	URANIUM-238	2/2	0	0		PCI/L
SW	Eqt. Rinse	Dissolved	VANADIUM	0/3				
SW	Eqt. Rinse	Dissolved	ZINC	2/3	2.4	6.1	3.7	UG/L
SW	Eqt. Rinse	Total	1,1,1-TRICHLOROETHANE	0/3				
SW	Eqt. Rinse	Total	1,1,2,2-TETRACHLOROETHANE	0/3				
SW	Eqt. Rinse	Total	1,1,2-TRICHLOROETHANE	0/3				
SW	Eqt. Rinse	Total	1,1-DICHLOROETHANE	0/3				
SW	Eqt. Rinse	Total	1,1-DICHLOROETHENE	0/3				
SW	Eqt. Rinse	Total	1,2,4-TRICHLOROBENZENE	0/3				
SW	Eqt. Rinse	Total	1,2-DICHLOROBENZENE	0/3				
SW	Eqt. Rinse	Total	1,2-DICHLOROETHANE	0/3				
SW	Eqt. Rinse	Total	1,2-DICHLOROETHENE	0/3				
SW	Eqt. Rinse	Total	1,2-DICHLOROPROPANE	0/3				
SW	Eqt. Rinse	Total	1,3-DICHLOROBENZENE	0/3				
SW	Eqt. Rinse	Total	1,4-DICHLOROBENZENE	0/3				
SW	Eqt. Rinse	Total	2,4,5-TRICHLOROPHENOL	0/3				
SW	Eqt. Rinse	Total	2,4,6-TRICHLOROPHENOL	0/3				
SW	Eqt. Rinse	Total	2,4-DICHLOROPHENOL	0/3				
SW	Eqt. Rinse	Total	2,4-DIMETHYLPHENOL	0/3				
SW	Eqt. Rinse	Total	2,4-DINITROPHENOL	0/3				
SW	Eqt. Rinse	Total	2,4-DINITROTOLUENE	0/3				
SW	Eqt. Rinse	Total	2,6-DINITROTOLUENE	0/3				
SW	Eqt. Rinse	Total	2-BUTANONE	0/3				
SW	Eqt. Rinse	Total	2-CHLORONAPHTHALENE	0/3				
SW	Eqt. Rinse	Total	2-CHLOROPHENOL	0/3				

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Eqt. Rinse	Total	2-HEXANONE	0/3				
SW	Eqt. Rinse	Total	2-METHYLNAPHTHALENE	0/3				
SW	Eqt. Rinse	Total	2-METHYLPHENOL	0/3				
SW	Eqt. Rinse	Total	2-NITROANILINE	0/3				
SW	Eqt. Rinse	Total	2-NITROPHENOL	0/3				
SW	Eqt. Rinse	Total	3,3'-DICHLOROBENZIDINE	0/3				
SW	Eqt. Rinse	Total	3-NITROANILINE	0/3				
SW	Eqt. Rinse	Total	4,4'-DDD	0/1				
SW	Eqt. Rinse	Total	4,4'-DDE	0/1				
SW	Eqt. Rinse	Total	4,4'-DDT	0/1				
SW	Eqt. Rinse	Total	4,6-DINITRO-2-METHYLPHENOL	0/3				
SW	Eqt. Rinse	Total	4-BROMOPHENYL PHENYL ETHER	0/3				
SW	Eqt. Rinse	Total	4-CHLORO-3-METHYLPHENOL	0/3				
SW	Eqt. Rinse	Total	4-CHLOROANILINE	0/3				
SW	Eqt. Rinse	Total	4-CHLOROPHENYL PHENYL ETHER	0/3				
SW	Eqt. Rinse	Total	4-METHYL-2-PENTANONE	0/3				
SW	Eqt. Rinse	Total	4-METHYLPHENOL	0/3				
SW	Eqt. Rinse	Total	4-NITROANILINE	0/3				
SW	Eqt. Rinse	Total	4-NITROPHENOL	0/3				
SW	Eqt. Rinse	Total	ACENAPHTHENE	0/3				
SW	Eqt. Rinse	Total	ACENAPHTHYLENE	0/3				
SW	Eqt. Rinse	Total	ACETONE	1/3	10	25	12	UG/L
SW	Eqt. Rinse	Total	ALDRIN	0/1				
SW	Eqt. Rinse	Total	ALUMINUM	2/3	31.7	43.9	33.4	UG/L
SW	Eqt. Rinse	Total	AMERICIUM-241	3/3	0.0016	0.011	0.006	PCI/L
SW	Eqt. Rinse	Total	ANTHRACENE	0/3				
SW	Eqt. Rinse	Total	ANTIMONY	0/3				
SW	Eqt. Rinse	Total	AROCLOR-1016	0/1				
SW	Eqt. Rinse	Total	AROCLOR-1221	0/1				
SW	Eqt. Rinse	Total	AROCLOR-1232	0/1				
SW	Eqt. Rinse	Total	AROCLOR-1242	0/1				
SW	Eqt. Rinse	Total	AROCLOR-1248	0/1				
SW	Eqt. Rinse	Total	AROCLOR-1254	0/1				
SW	Eqt. Rinse	Total	AROCLOR-1260	0/1				

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Eqt. Rinse	Total	ARSENIC	0/3				
SW	Eqt. Rinse	Total	BARIUM	0/3				
SW	Eqt. Rinse	Total	BENZENE	0/3				
SW	Eqt. Rinse	Total	BENZO(a)ANTHRACTENE	0/3				
SW	Eqt. Rinse	Total	BENZO(a)PYRENE	0/3				
SW	Eqt. Rinse	Total	BENZO(b)FLUORANTHENE	0/3				
SW	Eqt. Rinse	Total	BENZO(ghi)PERYLENE	0/3				
SW	Eqt. Rinse	Total	BENZO(k)FLUORANTHENE	0/3				
SW	Eqt. Rinse	Total	BENZOIC ACID	0/2				
SW	Eqt. Rinse	Total	BENZYL ALCOHOL	0/3				
SW	Eqt. Rinse	Total	BERYLLIUM	1/3	0.9	1	1	UG/L
SW	Eqt. Rinse	Total	BICARBONATE AS CACO3	0/3				
SW	Eqt. Rinse	Total	BIS(2-CHLOROETHOXY)METHANE	0/3				
SW	Eqt. Rinse	Total	BIS(2-CHLOROETHYL)ETHER	0/3				
SW	Eqt. Rinse	Total	BIS(2-CHLOROISOPROPYL)ETHER	0/3				
SW	Eqt. Rinse	Total	BIS(2-ETHYLHEXYL)PHTHALATE	1/3	2	10	4	UG/L
SW	Eqt. Rinse	Total	BROMODICHLOROMETHANE	0/3				
SW	Eqt. Rinse	Total	BROMOFORM	0/3				
SW	Eqt. Rinse	Total	BROMOMETHANE	0/3				
SW	Eqt. Rinse	Total	BUTYL BENZYL PHTHALATE	0/3				
SW	Eqt. Rinse	Total	CADMIUM	1/3	2.7	2.8	1.8	UG/L
SW	Eqt. Rinse	Total	CALCIUM	3/3	51.1	78.8	63	UG/L
SW	Eqt. Rinse	Total	CARBON DISULFIDE	0/3				
SW	Eqt. Rinse	Total	CARBON TETRACHLORIDE	0/3				
SW	Eqt. Rinse	Total	CARBONATE	0/3				
SW	Eqt. Rinse	Total	CESIUM	0/3				
SW	Eqt. Rinse	Total	CESIUM-137	2/2	0.2445	0.3202	0.2824	PCI/L
SW	Eqt. Rinse	Total	CHLORIDE	0/3				
SW	Eqt. Rinse	Total	CHLOROBENZENE	0/3				
SW	Eqt. Rinse	Total	CHLOROETHANE	0/3				
SW	Eqt. Rinse	Total	CHLOROFORM	0/3				
SW	Eqt. Rinse	Total	CHLOROMETHANE	0/3				
SW	Eqt. Rinse	Total	CHROMIUM	2/3	2.6	3.6	2.6	UG/L
SW	Eqt. Rinse	Total	CHRYSENE	0/3				

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Eqt. Rinse	Total	COBALT	0/3				
SW	Eqt. Rinse	Total	COPPER	1/3	2.9	4.1	2.3	UG/L
SW	Eqt. Rinse	Total	CYANIDE	0/1				
SW	Eqt. Rinse	Total	DI-n-BUTYL PHTHALATE	0/3				
SW	Eqt. Rinse	Total	DI-n-OCTYL PHTHALATE	0/3				
SW	Eqt. Rinse	Total	DIBENZO(a,h)ANTHRACENE	0/3				
SW	Eqt. Rinse	Total	DIBENZOFURAN	0/3				
SW	Eqt. Rinse	Total	DIBROMOCHLOROMETHANE	0/3				
SW	Eqt. Rinse	Total	DIELDRIN	0/1				
SW	Eqt. Rinse	Total	DIETHYL PHTHALATE	0/3				
SW	Eqt. Rinse	Total	DIMETHYL PHTHALATE	0/3				
SW	Eqt. Rinse	Total	ENDOSULFAN I	0/1				
SW	Eqt. Rinse	Total	ENDOSULFAN II	0/1				
SW	Eqt. Rinse	Total	ENDOSULFAN SULFATE	0/1				
SW	Eqt. Rinse	Total	ENDRIN	0/1				
SW	Eqt. Rinse	Total	ENDRIN KETONE	0/1				
SW	Eqt. Rinse	Total	ETHYLBENZENE	0/3				
SW	Eqt. Rinse	Total	FLUORANTHENE	0/3				
SW	Eqt. Rinse	Total	FLUORENE	0/3				
SW	Eqt. Rinse	Total	FLUORIDE	0/3				
SW	Eqt. Rinse	Total	GROSS ALPHA	1/1	0.08307	0.08307	0.08307	PCI/L
SW	Eqt. Rinse	Total	GROSS BETA	1/1	0.2121	0.2121	0.2121	PCI/L
SW	Eqt. Rinse	Total	HEPTACHLOR	0/1				
SW	Eqt. Rinse	Total	HEPTACHLOR EPOXIDE	0/1				
SW	Eqt. Rinse	Total	HEXACHLOROBENZENE	0/3				
SW	Eqt. Rinse	Total	HEXACHLOROBUTADIENE	0/3				
SW	Eqt. Rinse	Total	HEXACHLOROCYCLOPENTADIENE	0/3				
SW	Eqt. Rinse	Total	HEXACHLOROETHANE	0/3				
SW	Eqt. Rinse	Total	INDENO(1,2,3-cd)PYRENE	0/3				
SW	Eqt. Rinse	Total	IRON	3/3	14.3	43.8	33.1	UG/L
SW	Eqt. Rinse	Total	ISOPHORONE	0/3				
SW	Eqt. Rinse	Total	LEAD	0/3				
SW	Eqt. Rinse	Total	LITHIUM	0/3				
SW	Eqt. Rinse	Total	MAGNESIUM	1/3	38.9	45.3	28.1	UG/L

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Eqt. Rinse	Total	MANGANESE	0/3				
SW	Eqt. Rinse	Total	MERCURY	0/3				
SW	Eqt. Rinse	Total	METHOXYCHLOR	0/1				
SW	Eqt. Rinse	Total	METHYLENE CHLORIDE	1/3	5	7	3	UG/L
SW	Eqt. Rinse	Total	MOLYBDENUM	0/3				
SW	Eqt. Rinse	Total	N-NITROSO-DI-n-PROPYLAMINE	0/3				
SW	Eqt. Rinse	Total	N-NITROSODIPHENYLAMINE	0/3				
SW	Eqt. Rinse	Total	NAPHTHALENE	0/3				
SW	Eqt. Rinse	Total	NICKEL	0/3				
SW	Eqt. Rinse	Total	NITRATE	0/3				
SW	Eqt. Rinse	Total	NITROBENZENE	0/3				
SW	Eqt. Rinse	Total	PENTACHLOROPHENOL	0/3				
SW	Eqt. Rinse	Total	PHENANTHRENE	0/3				
SW	Eqt. Rinse	Total	PHENOL	0/3				
SW	Eqt. Rinse	Total	PLUTONIUM-239/240	3/3	-0.00030	0.0014	0.0005	PCI/L
SW	Eqt. Rinse	Total	POTASSIUM	0/3				
SW	Eqt. Rinse	Total	PYRENE	0/3				
SW	Eqt. Rinse	Total	SELENIUM	0/3				
SW	Eqt. Rinse	Total	SILICON	3/3	86.4	113	102	UG/L
SW	Eqt. Rinse	Total	SILVER	0/3				
SW	Eqt. Rinse	Total	SODIUM	3/3	91.9	235	158	UG/L
SW	Eqt. Rinse	Total	STRONTIUM	0/3				
SW	Eqt. Rinse	Total	STRONTIUM-89,90	3/3	0.3219	0.885	0.597	PCI/L
SW	Eqt. Rinse	Total	STYRENE	0/3				
SW	Eqt. Rinse	Total	SULFATE	1/3	500.0	510.00	336.7	UG/L
SW	Eqt. Rinse	Total	SULFIDE	0/1				
SW	Eqt. Rinse	Total	TETRACHLOROETHENE	0/3				
SW	Eqt. Rinse	Total	THALLIUM	0/3				
SW	Eqt. Rinse	Total	TIN	1/3	16.7	17.4	11.4	UG/L
SW	Eqt. Rinse	Total	TOLUENE	0/3				
SW	Eqt. Rinse	Total	TOTAL DISSOLVED SOLIDS	3/3	12000	64000	32000	UG/L
SW	Eqt. Rinse	Total	TOTAL RADIOCESIUM	1/1	0.874	0.874	0.874	PCI/L
SW	Eqt. Rinse	Total	TOTAL SUSPENDED SOLIDS	0/3				
SW	Eqt. Rinse	Total	TOTAL XYLENES	0/3				

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Eqt. Rinse	Total	TOXAPHENE	0/1				
SW	Eqt. Rinse	Total	TRICHLOROETHENE	0/3				
SW	Eqt. Rinse	Total	TRITIUM	3/3	-59	78.21	28	PCI/L
SW	Eqt. Rinse	Total	URANIUM-233,-234	3/3	-0.0295	0.343	0.126	PCI/L
SW	Eqt. Rinse	Total	URANIUM-235	3/3	-0.0236	0.04867	0.0084	PCI/L
SW	Eqt. Rinse	Total	URANIUM-238	3/3	-0.0118	0.1112	0.0356	PCI/L
SW	Eqt. Rinse	Total	VANADIUM	0/3				
SW	Eqt. Rinse	Total	VINYL ACETATE	0/2				
SW	Eqt. Rinse	Total	VINYL CHLORIDE	0/3				
SW	Eqt. Rinse	Total	ZINC	3/3	5.8	80.9	30.9	UG/L
SW	Eqt. Rinse	Total	alpha-BHC	0/1				
SW	Eqt. Rinse	Total	alpha-CHLORDANE	0/1				
SW	Eqt. Rinse	Total	beta-BHC	0/1				
SW	Eqt. Rinse	Total	cis-1,3-DICHLOROPROPENE	0/3				
SW	Eqt. Rinse	Total	delta-BHC	0/1				
SW	Eqt. Rinse	Total	gamma-BHC (LINDANE)	0/1				
SW	Eqt. Rinse	Total	gamma-CHLORDANE	0/1				
SW	Eqt. Rinse	Total	trans-1,3-DICHLOROPROPENE	0/3				
SW	Trip Blank	Total	1,1,1-TRICHLOROETHANE	0/1				
SW	Trip Blank	Total	1,1,2,2-TETRACHLOROETHANE	0/1				
SW	Trip Blank	Total	1,1,2-TRICHLOROETHANE	0/1				
SW	Trip Blank	Total	1,1-DICHLOROETHANE	0/1				
SW	Trip Blank	Total	1,1-DICHLOROETHENE	0/1				
SW	Trip Blank	Total	1,2-DICHLOROETHANE	0/1				
SW	Trip Blank	Total	1,2-DICHLOROETHENE	0/1				
SW	Trip Blank	Total	1,2-DICHLOROPROPANE	0/1				
SW	Trip Blank	Total	2-BUTANONE	0/1				
SW	Trip Blank	Total	2-HEXANONE	0/1				
SW	Trip Blank	Total	4-METHYL-2-PENTANONE	0/1				
SW	Trip Blank	Total	ACETONE	0/1				
SW	Trip Blank	Total	BENZENE	0/1				
SW	Trip Blank	Total	BROMODICHLOROMETHANE	0/1				
SW	Trip Blank	Total	BROMOFORM	0/1				
SW	Trip Blank	Total	BROMOMETHANE	0/1				

Table J-14
Analytical Results for Equipment Rinses, Field Blank, and Trip Blank Collected During Surface Water Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
SW	Trip Blank	Total	CARBON DISULFIDE	0/1				
SW	Trip Blank	Total	CARBON TETRACHLORIDE	0/1				
SW	Trip Blank	Total	CHLOROBENZENE	0/1				
SW	Trip Blank	Total	CHLOROETHANE	0/1				
SW	Trip Blank	Total	CHLOROFORM	0/1				
SW	Trip Blank	Total	CHLOROMETHANE	0/1				
SW	Trip Blank	Total	DIBROMOCHLOROMETHANE	0/1				
SW	Trip Blank	Total	ETHYLBENZENE	0/1				
SW	Trip Blank	Total	METHYLENE CHLORIDE	0/1				
SW	Trip Blank	Total	STYRENE	0/1				
SW	Trip Blank	Total	TETRACHLOROETHENE	0/1				
SW	Trip Blank	Total	TOLUENE	0/1				
SW	Trip Blank	Total	TOTAL XYLEMES	0/1				
SW	Trip Blank	Total	TRICHLOROETHENE	0/1				
SW	Trip Blank	Total	VINYL ACETATE	0/1				
SW	Trip Blank	Total	VINYL CHLORIDE	0/1				
SW	Trip Blank	Total	cis-1,3-DICHLOROPROPENE	0/1				
SW	Trip Blank	Total	trans-1,3-DICHLOROPROPENE	0/1				

Table J-15
Analytical Results for Equipment Rinses Collected During Groundwater Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
GW	Eqt. Rinse	Dissolved	ALUMINUM	0/2				
GW	Eqt. Rinse	Dissolved	AMERICIUM-241	2/2	0.0005423	0.0011	0.0008	PCI/L
GW	Eqt. Rinse	Dissolved	ANTIMONY	0/2				
GW	Eqt. Rinse	Dissolved	ARSENIC	1/2	3	15.3	8	UG/L
GW	Eqt. Rinse	Dissolved	BARIUM	0/2				
GW	Eqt. Rinse	Dissolved	BERYLLIUM	0/2				
GW	Eqt. Rinse	Dissolved	CADMIUM	0/2				
GW	Eqt. Rinse	Dissolved	CALCIUM	1/2	34	152	113	UG/L
GW	Eqt. Rinse	Dissolved	CESIUM	0/2				
GW	Eqt. Rinse	Dissolved	CESIUM-134	1/1	1.68	1.68	1.68	PCI/L
GW	Eqt. Rinse	Dissolved	CESIUM-137	2/2	-0.189	0	-0.095	PCI/L
GW	Eqt. Rinse	Dissolved	CHROMIUM	0/2				
GW	Eqt. Rinse	Dissolved	COBALT	0/2				
GW	Eqt. Rinse	Dissolved	COPPER	0/2				
GW	Eqt. Rinse	Dissolved	GROSS ALPHA	1/1	0.65	0.65	0.65	PCI/L
GW	Eqt. Rinse	Dissolved	GROSS BETA	1/1	2.47	2.47	2.47	PCI/L
GW	Eqt. Rinse	Dissolved	IRON	1/2	5	26.8	15	UG/L
GW	Eqt. Rinse	Dissolved	LEAD	0/2				
GW	Eqt. Rinse	Dissolved	LITHIUM	0/2				
GW	Eqt. Rinse	Dissolved	MAGNESIUM	0/2				
GW	Eqt. Rinse	Dissolved	MANGANESE	0/2				
GW	Eqt. Rinse	Dissolved	MERCURY	0/2				
GW	Eqt. Rinse	Dissolved	MOLYBDENUM	0/2				
GW	Eqt. Rinse	Dissolved	NICKEL	0/2				
GW	Eqt. Rinse	Dissolved	PLUTONIUM-239/240	2/2	-0.006	-0.00135	-0.004	PCI/L
GW	Eqt. Rinse	Dissolved	POTASSIUM	1/2	1010	1020	763	UG/L
GW	Eqt. Rinse	Dissolved	SELENIUM	0/2				
GW	Eqt. Rinse	Dissolved	SILICON	1/2	20	190	101	UG/L
GW	Eqt. Rinse	Dissolved	SILVER	0/2				
GW	Eqt. Rinse	Dissolved	SODIUM	1/2	407	910	350	UG/L
GW	Eqt. Rinse	Dissolved	STRONTIUM	0/2				
GW	Eqt. Rinse	Dissolved	STRONTIUM-89,90	2/2	0	0.2199	0.1100	PCI/L
GW	Eqt. Rinse	Dissolved	THALLIUM	0/2				
GW	Eqt. Rinse	Dissolved	TIN	0/2				

Table J-15
Analytical Results for Equipment Rinses Collected During Groundwater Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
GW	Eqt. Rinse	Dissolved	URANIUM-233,-234	1/1	0.1218	0.1218	0.1218	PCI/L
GW	Eqt. Rinse	Dissolved	URANIUM-235	1/1	0.0609	0.0609	0.0609	PCI/L
GW	Eqt. Rinse	Dissolved	URANIUM-238	1/1	0.000	0.000	0.000	PCI/L
GW	Eqt. Rinse	Dissolved	VANADIUM	0/2				
GW	Eqt. Rinse	Dissolved	ZINC	2/2	6.4	11.2	8.8	UG/L
GW	Eqt. Rinse	Total	1,1,1-TRICHLOROETHANE	0/2				
GW	Eqt. Rinse	Total	1,1,2,2-TETRACHLOROETHANE	0/2				
GW	Eqt. Rinse	Total	1,1,2-TRICHLOROETHANE	0/2				
GW	Eqt. Rinse	Total	1,1-DICHLOROETHANE	0/2				
GW	Eqt. Rinse	Total	1,1-DICHLOROETHENE	0/2				
GW	Eqt. Rinse	Total	1,2,4-TRICHLOROBENZENE	0/2				
GW	Eqt. Rinse	Total	1,2-DICHLOROBENZENE	0/2				
GW	Eqt. Rinse	Total	1,2-DICHLOROETHANE	0/2				
GW	Eqt. Rinse	Total	1,2-DICHLOROETHENE	0/2				
GW	Eqt. Rinse	Total	1,2-DICHLOROPROPANE	0/2				
GW	Eqt. Rinse	Total	1,3-DICHLOROBENZENE	0/2				
GW	Eqt. Rinse	Total	1,4-DICHLOROBENZENE	0/2				
GW	Eqt. Rinse	Total	2,4,5-TRICHLOROPHENOL	0/2				
GW	Eqt. Rinse	Total	2,4,6-TRICHLOROPHENOL	0/2				
GW	Eqt. Rinse	Total	2,4-DICHLOROPHENOL	0/2				
GW	Eqt. Rinse	Total	2,4-DIMETHYLPHENOL	0/2				
GW	Eqt. Rinse	Total	2,4-DINITROPHENOL	0/2				
GW	Eqt. Rinse	Total	2,4-DINITROTOLUENE	0/2				
GW	Eqt. Rinse	Total	2,6-DINITROTOLUENE	0/2				
GW	Eqt. Rinse	Total	2-BUTANONE	0/2				
GW	Eqt. Rinse	Total	2-CHLORONAPHTHALENE	0/2				
GW	Eqt. Rinse	Total	2-CHLOROPHENOL	0/2				
GW	Eqt. Rinse	Total	2-HEXANONE	0/2				
GW	Eqt. Rinse	Total	2-METHYLNAPHTHALENE	0/2				
GW	Eqt. Rinse	Total	2-METHYLPHENOL	0/2				
GW	Eqt. Rinse	Total	2-NITROANILINE	0/2				
GW	Eqt. Rinse	Total	2-NITROPHENOL	0/2				
GW	Eqt. Rinse	Total	3,3'-DICHLOROBENZIDINE	0/1				
GW	Eqt. Rinse	Total	3-NITROANILINE	0/2				

Table J-15
Analytical Results for Equipment Rinses Collected During Groundwater Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
GW	Eqt. Rinse	Total	4,6-DINITRO-2-METHYLPHENOL	0/2				
GW	Eqt. Rinse	Total	4-BROMOPHENYL PHENYL ETHER	0/2				
GW	Eqt. Rinse	Total	4-CHLORO-3-METHYLPHENOL	0/2				
GW	Eqt. Rinse	Total	4-CHLOROANILINE	0/1				
GW	Eqt. Rinse	Total	4-CHLOROPHENYL PHENYL ETHER	0/2				
GW	Eqt. Rinse	Total	4-METHYL-2-PENTANONE	0/2				
GW	Eqt. Rinse	Total	4-METHYLPHENOL	0/2				
GW	Eqt. Rinse	Total	4-NITROANILINE	0/2				
GW	Eqt. Rinse	Total	4-NITROPHENOL	0/1				
GW	Eqt. Rinse	Total	ACENAPHTHENE	0/2				
GW	Eqt. Rinse	Total	ACENAPHTHYLENE	0/2				
GW	Eqt. Rinse	Total	ACETONE	0/2				
GW	Eqt. Rinse	Total	ALUMINUM	2/2	29.9	38.9	34.4	UG/L
GW	Eqt. Rinse	Total	AMERICIUM-241	2/2	0.000539	0.0008	0.0007	PCI/L
GW	Eqt. Rinse	Total	ANTHRACENE	0/2				
GW	Eqt. Rinse	Total	ANTIMONY	0/2				
GW	Eqt. Rinse	Total	ARSENIC	0/2				
GW	Eqt. Rinse	Total	BARIUM	0/2				
GW	Eqt. Rinse	Total	BENZENE	0/2				
GW	Eqt. Rinse	Total	BENZO(a)ANTHRACENE	0/2				
GW	Eqt. Rinse	Total	BENZO(a)PYRENE	0/2				
GW	Eqt. Rinse	Total	BENZO(b)FLUORANTHENE	0/2				
GW	Eqt. Rinse	Total	BENZO(ghi)PERYLENE	0/2				
GW	Eqt. Rinse	Total	BENZO(k)FLUORANTHENE	0/2				
GW	Eqt. Rinse	Total	BENZOIC ACID	0/2				
GW	Eqt. Rinse	Total	BENZYL ALCOHOL	0/2				
GW	Eqt. Rinse	Total	BERYLLIUM	0/2				
GW	Eqt. Rinse	Total	BICARBONATE AS CACO ₃	0/2				
GW	Eqt. Rinse	Total	BIS(2-CHLOROETHOXY)METHANE	0/2				
GW	Eqt. Rinse	Total	BIS(2-CHLOROETHYL)ETHER	0/2				
GW	Eqt. Rinse	Total	BIS(2-CHLOROISOPROPYL)ETHER	0/2				
GW	Eqt. Rinse	Total	BIS(2-ETHYLHEXYL)PHTHALATE	0/2				
GW	Eqt. Rinse	Total	BROMODICHLOROMETHANE	0/2				
GW	Eqt. Rinse	Total	BROMOFORM	0/2				

Table J-15
Analytical Results for Equipment Rinses Collected During Groundwater Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
GW	Eqt. Rinse	Total	BROMOMETHANE	0/2				
GW	Eqt. Rinse	Total	BUTYL BENZYL PHTHALATE	0/2				
GW	Eqt. Rinse	Total	CADMIUM	0/2				
GW	Eqt. Rinse	Total	CALCIUM	2/2	42.8	1470	756	UG/L
GW	Eqt. Rinse	Total	CARBON DISULFIDE	0/1				
GW	Eqt. Rinse	Total	CARBON-TETRACHLORIDE	0/2				
GW	Eqt. Rinse	Total	CARBONATE	0/2				
GW	Eqt. Rinse	Total	CESIUM	0/2				
GW	Eqt. Rinse	Total	CHLORIDE	0/2				
GW	Eqt. Rinse	Total	CHLOROBENZENE	0/2				
GW	Eqt. Rinse	Total	CHLOROETHANE	0/2				
GW	Eqt. Rinse	Total	CHLOROFORM	0/2				
GW	Eqt. Rinse	Total	CHLOROMETHANE	0/2				
GW	Eqt. Rinse	Total	CHROMIUM	0/2				
GW	Eqt. Rinse	Total	CHRYSENE	0/2				
GW	Eqt. Rinse	Total	COBALT	0/2				
GW	Eqt. Rinse	Total	COPPER	1/2	2.7	6.9	4.1	UG/L
GW	Eqt. Rinse	Total	CYANIDE	0/2				
GW	Eqt. Rinse	Total	DI-n-BUTYL PHTHALATE	0/2				
GW	Eqt. Rinse	Total	DI-n-OCTYL PHTHALATE	0/2				
GW	Eqt. Rinse	Total	DIBENZO(a,h)ANTHRACENE	0/2				
GW	Eqt. Rinse	Total	DIBENZOFURAN	0/2				
GW	Eqt. Rinse	Total	DIBROMOCHLOROMETHANE	0/2				
GW	Eqt. Rinse	Total	DIETHYL PHTHALATE	0/2				
GW	Eqt. Rinse	Total	DIMETHYL PHTHALATE	0/2				
GW	Eqt. Rinse	Total	ETHYLBENZENE	0/2				
GW	Eqt. Rinse	Total	FLUORANTHENE	0/2				
GW	Eqt. Rinse	Total	FLUORENE	0/2				
GW	Eqt. Rinse	Total	FLUORIDE	0/2				
GW	Eqt. Rinse	Total	HEXACHLOROBENZENE	0/2				
GW	Eqt. Rinse	Total	HEXACHLOROBUTADIENE	0/2				
GW	Eqt. Rinse	Total	HEXACHLOROCYCLOPENTADIENE	0/2				
GW	Eqt. Rinse	Total	HEXACHLOROETHANE	0/2				
GW	Eqt. Rinse	Total	INDENO(1,2,3-cd)PYRENE	0/2				

Table J-15
Analytical Results for Equipment Rinses Collected During Groundwater Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
GW	Eqt. Rinse	Total	IRON	2/2	20.9	36	28	UG/L
GW	Eqt. Rinse	Total	ISOPHORONE	0/2				
GW	Eqt. Rinse	Total	LEAD	1/1	3.1	3.1	3.1	UG/L
GW	Eqt. Rinse	Total	LITHIUM	0/2				
GW	Eqt. Rinse	Total	MAGNESIUM	0/2				
GW	Eqt. Rinse	Total	MANGANESE	1/2	1.5	2.8	1.8	UG/L
GW	Eqt. Rinse	Total	MERCURY	0/2				
GW	Eqt. Rinse	Total	METHYLENE CHLORIDE	0/2				
GW	Eqt. Rinse	Total	MOLYBDENUM	0/2				
GW	Eqt. Rinse	Total	N-NITROSO-DI-n-PROPYLAMINE	0/2				
GW	Eqt. Rinse	Total	N-NITROSODIPHENYLAMINE	0/2				
GW	Eqt. Rinse	Total	NAPHTHALENE	0/2				
GW	Eqt. Rinse	Total	NICKEL	0/2				
GW	Eqt. Rinse	Total	NITRATE	0/1				
GW	Eqt. Rinse	Total	NITRATE/NITRITE	0/1				
GW	Eqt. Rinse	Total	NITRITE	0/1				
GW	Eqt. Rinse	Total	NITROBENZENE	0/2				
GW	Eqt. Rinse	Total	PENTACHLOROPHENOL	0/2				
GW	Eqt. Rinse	Total	PHENANTHRENE	0/2				
GW	Eqt. Rinse	Total	PHENOL	0/2				
GW	Eqt. Rinse	Total	PLUTO NIUM-239/240	2/2	-0.000497	0	-0.000249	PCI/L
GW	Eqt. Rinse	Total	POTASSIUM	0/2				
GW	Eqt. Rinse	Total	PYRENE	0/2				
GW	Eqt. Rinse	Total	SELENIUM	0/2				
GW	Eqt. Rinse	Total	SILICON	1/2	91.9	201	52	UG/L
GW	Eqt. Rinse	Total	SILVER	0/2				
GW	Eqt. Rinse	Total	SODIUM	2/2	214	2160	1187	UG/L
GW	Eqt. Rinse	Total	STRONTIUM	1/2	1.7	3.9	2.4	UG/L
GW	Eqt. Rinse	Total	STYRENE	0/2				
GW	Eqt. Rinse	Total	SULFATE	0/2				
GW	Eqt. Rinse	Total	SULFIDE	1/2	1000	24000	12250	UG/L
GW	Eqt. Rinse	Total	TETRACHLOROETHENE	0/2				
GW	Eqt. Rinse	Total	THALLIUM	0/2				
GW	Eqt. Rinse	Total	TIN	0/2				

Table J-15
Analytical Results for Equipment Rinses Collected During Groundwater Sampling

SAMPLE TYPE	QC SAMPLE TYPE	TOTAL/ DISSOLVED	ANALYTE	FREQ. OF HITS	MINIMUM RESULT	MAXIMUM RESULT	MEAN RESULT	UNITS
GW	Eqt. Rinse	Total	TOLUENE	0/2				
GW	Eqt. Rinse	Total	TOTAL DISSOLVED SOLIDS	1/2	10000	14000	8500	UG/L
GW	Eqt. Rinse	Total	TOTAL SUSPENDED SOLIDS	1/2	5000	8000	5250	UG/L
GW	Eqt. Rinse	Total	TOTAL XYLEMES	0/2				
GW	Eqt. Rinse	Total	TRICHLOROETHENE	0/2				
GW	Eqt. Rinse	Total	TRITIUM	2/2	0	87.93	43.97	PCI/L
GW	Eqt. Rinse	Total	VANADIUM	0/2				
GW	Eqt. Rinse	Total	VINYL ACETATE	0/1				
GW	Eqt. Rinse	Total	VINYL CHLORIDE	0/2				
GW	Eqt. Rinse	Total	ZINC	2/2	6.3	27.5	16.9	UG/L
GW	Eqt. Rinse	Total	cis-1,3-DICHLOROPROPENE	0/2				
GW	Eqt. Rinse	Total	trans-1,3-DICHLOROPROPENE	0/2				

Appendix K

Box Plots

KEY TO BOX AND WHISKER PLOTS

Units of measurement

ug/Kg	micrograms per kilogram
mg/Kg	milligrams per kilogram
ug/l	micrograms per liter
pCi/l	picocuries per liter
pH	pH unit; measurement of the hydrogen ion activity; = -log10[H ⁺]

Titles

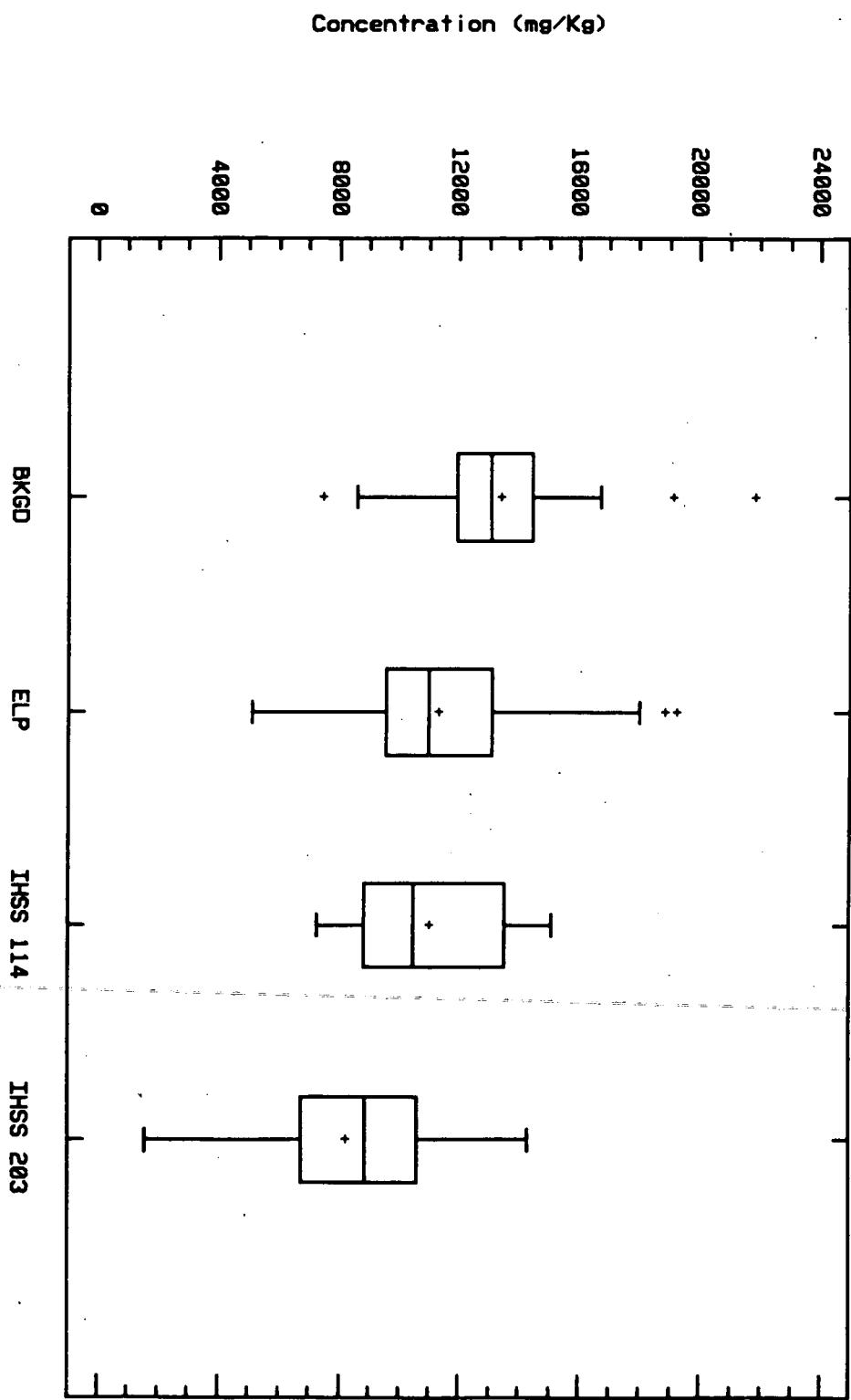
OU7	Operable Unit No. 7
SW	surface water
LHSU	lower hydrostratigraphic unit
UHSU	upper hydrostratigraphic unit
T.	total
CaCO ₃	calcium carbonate
KaKl(w)	undifferentiated weathered Arapahoe and Laramie Formation
Qrf	Rocky Flats Alluvium
Qc	Colluvium

X-Axis

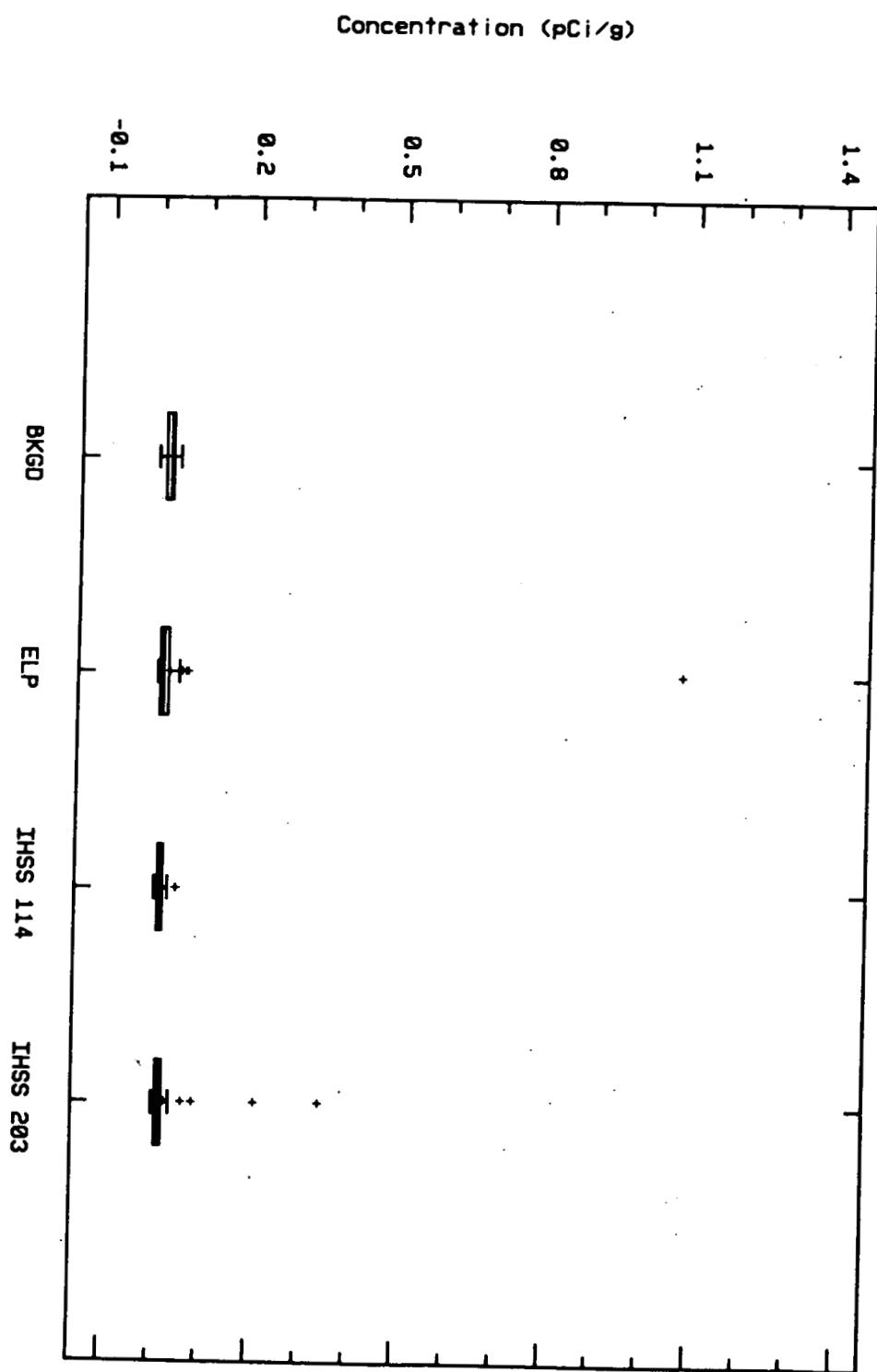
BKGD	Site background sample population concentrations
SW097	OU 7 site sample population concentrations from surface water station SW097
SW098	OU 7 site sample population concentrations from surface water station SW098
SW099	OU 7 site sample population concentrations from surface water station SW099
SW100	OU 7 site sample population concentrations from surface water station SW100
SITE	OU 7 site sample population concentrations (sediments and surface soils)
IHSS 114	Sample population concentrations from Individual Hazardous Substance Site 114
IHSS 203	Sample population concentrations from Individual Hazardous Substance Site 203
ELP	Sample population concentrations from the East Landfill Pond
Upgradient	Upgradient of OU 7 sample population concentrations
Downgradient	Downgradient of OU 7 sample population concentrations
Landfill	Samples from landfill population concentrations

Surface Soils
(0 to 2 inches)

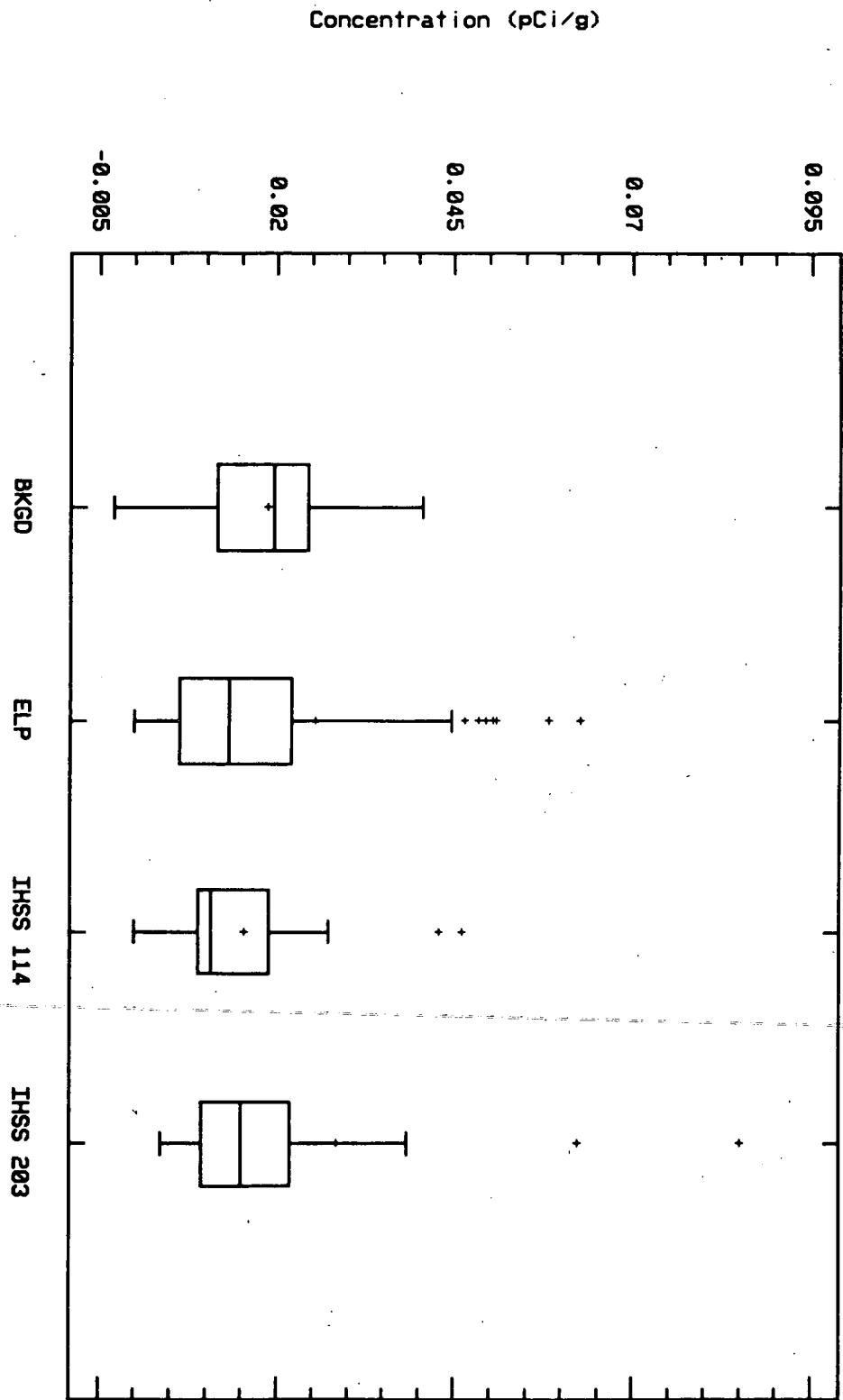
Aluminum
Surface Soils: 0-2 (inches)



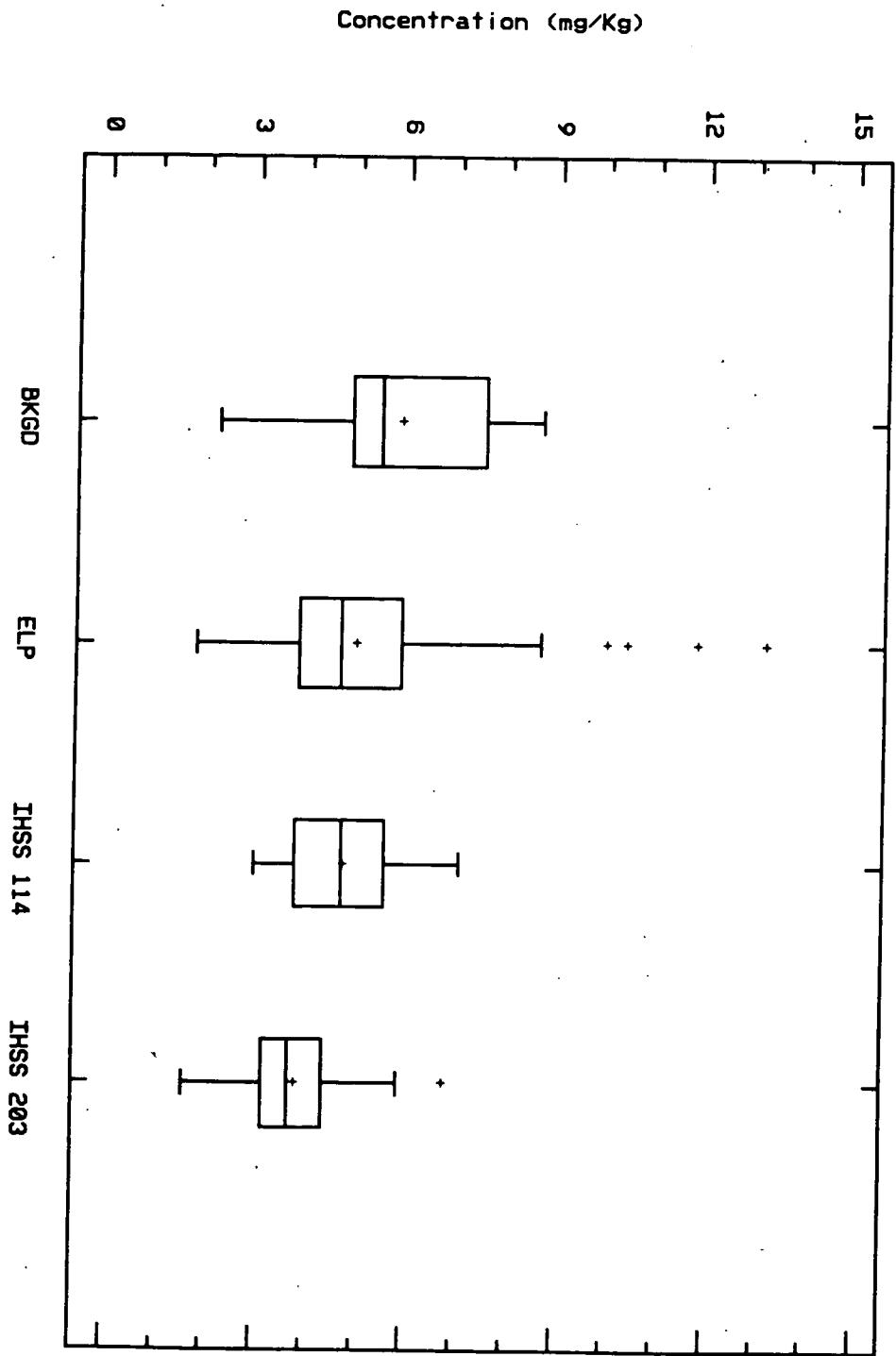
Americium-241
Surface Soils: 0-2 (inches)



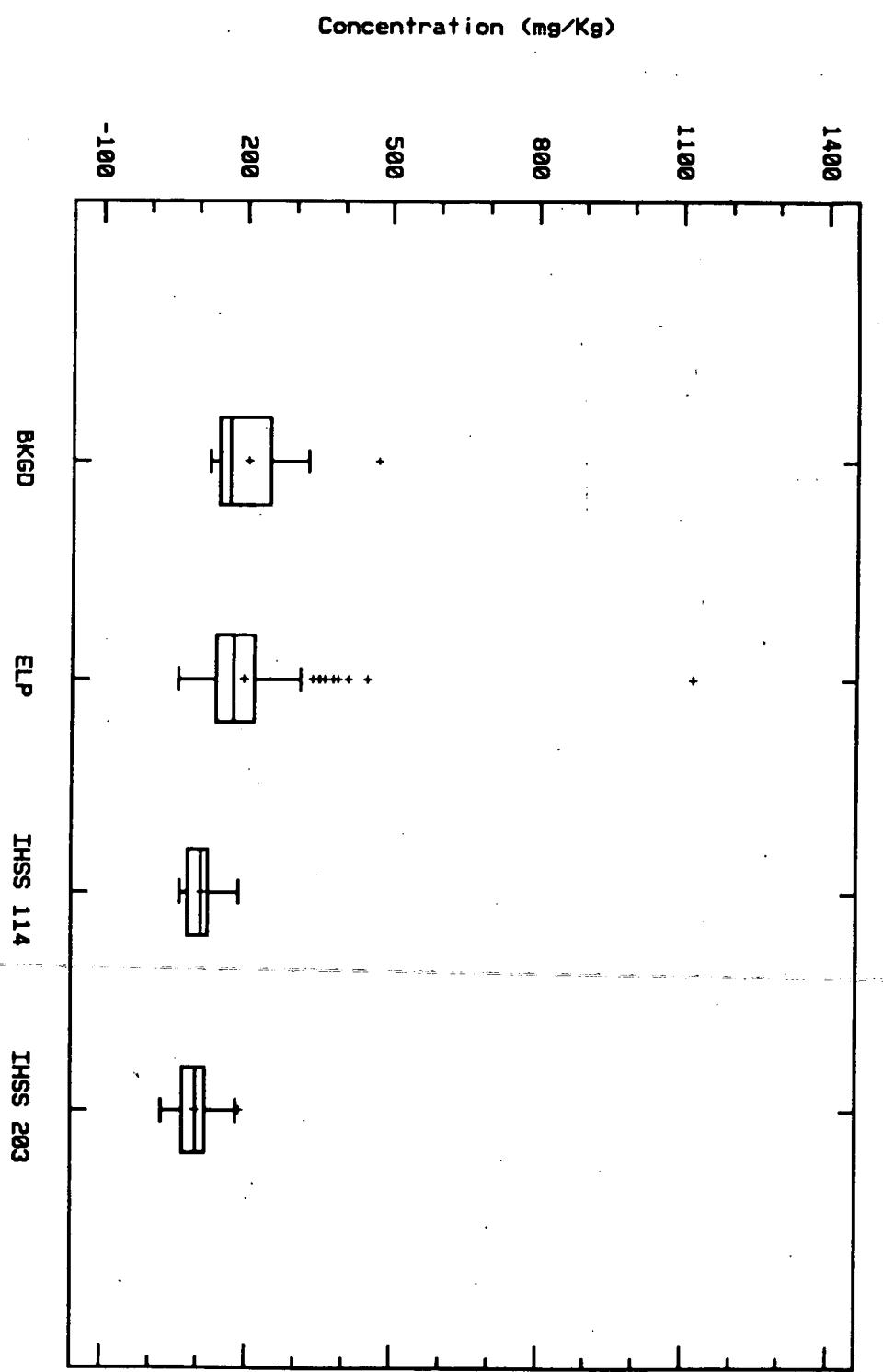
Americium-241
Surface Soils: 0-2 (inches)



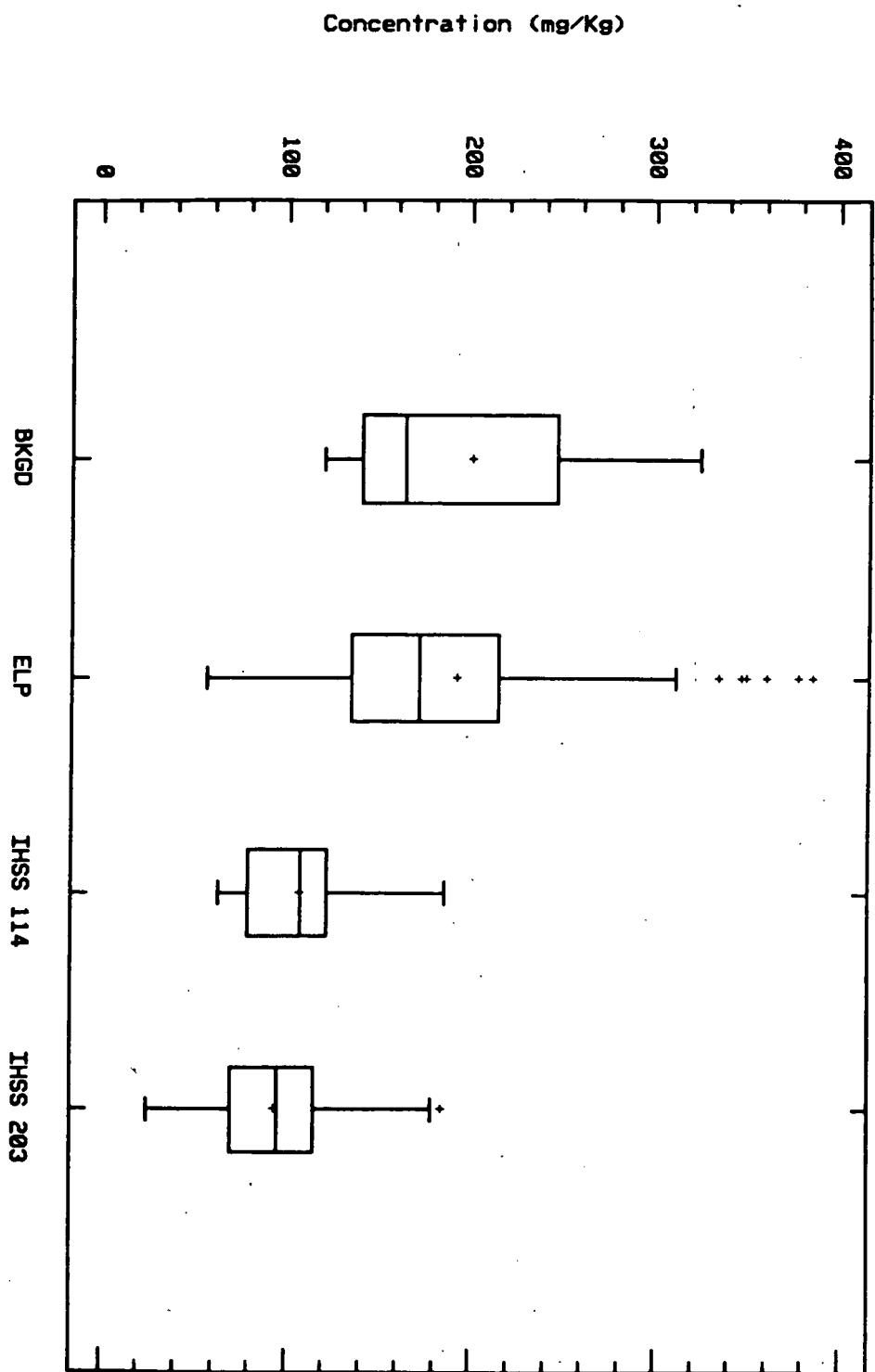
Arsenic
Surface Soils: 0-2 (inches)



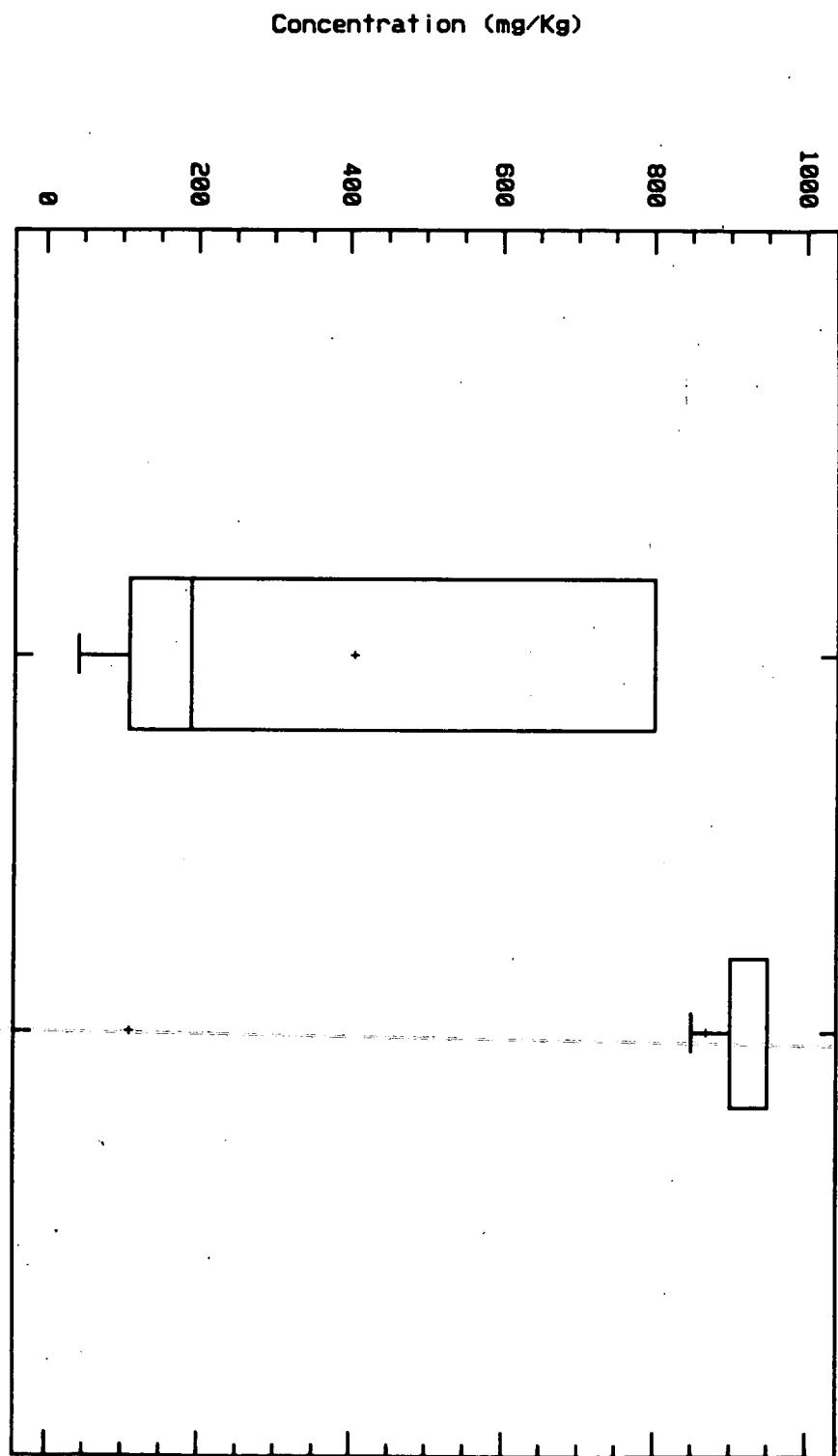
Barium
Surface Soils: 0-2 (inches)



Barium
Surface Soils: 0-2 (inches)



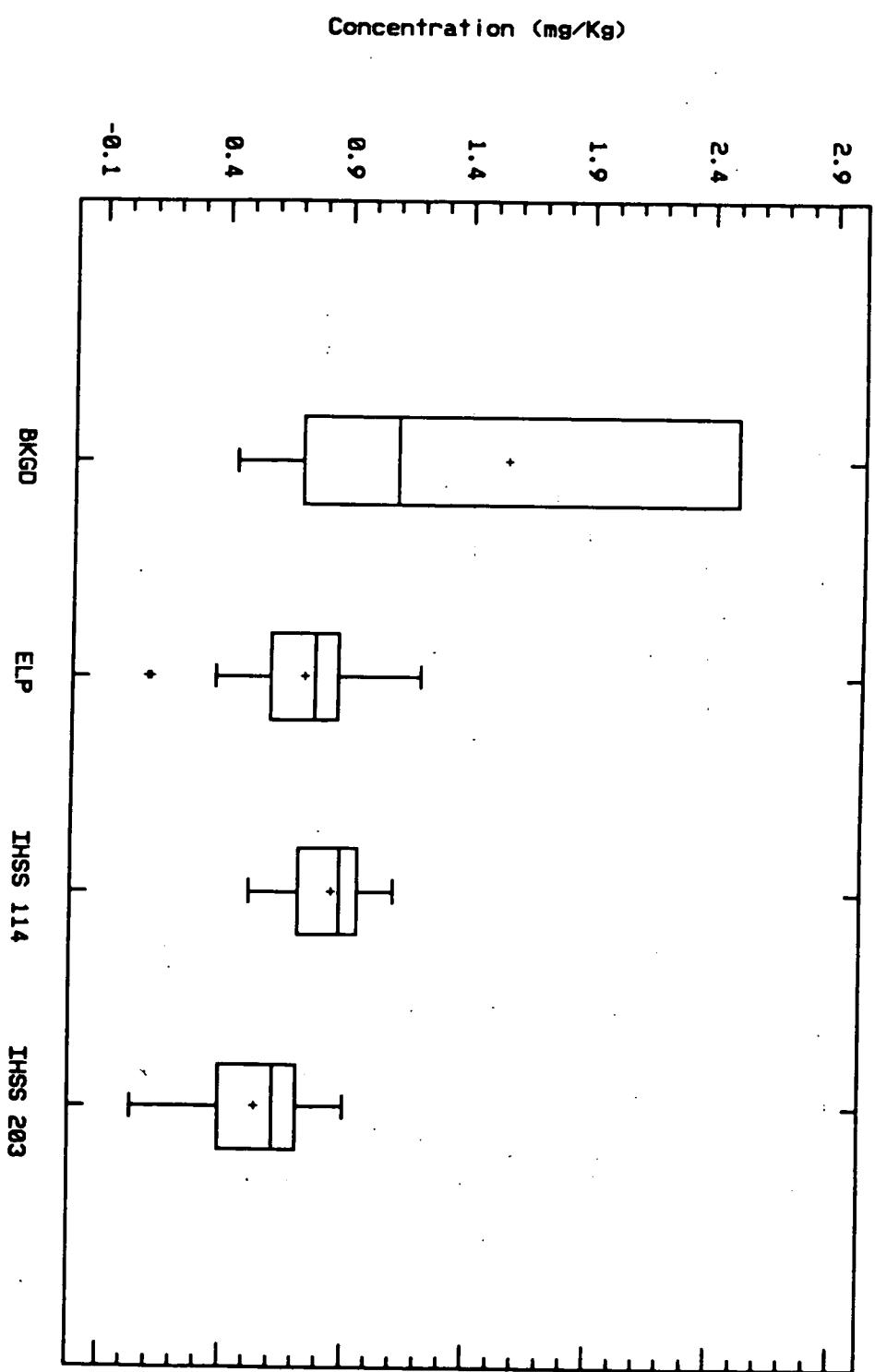
Benzoic Acid
Surface Soils: 0-2 (inches)



BK60

IHSS 114

Beryllium
Surface Soils: 0-2 (inches)

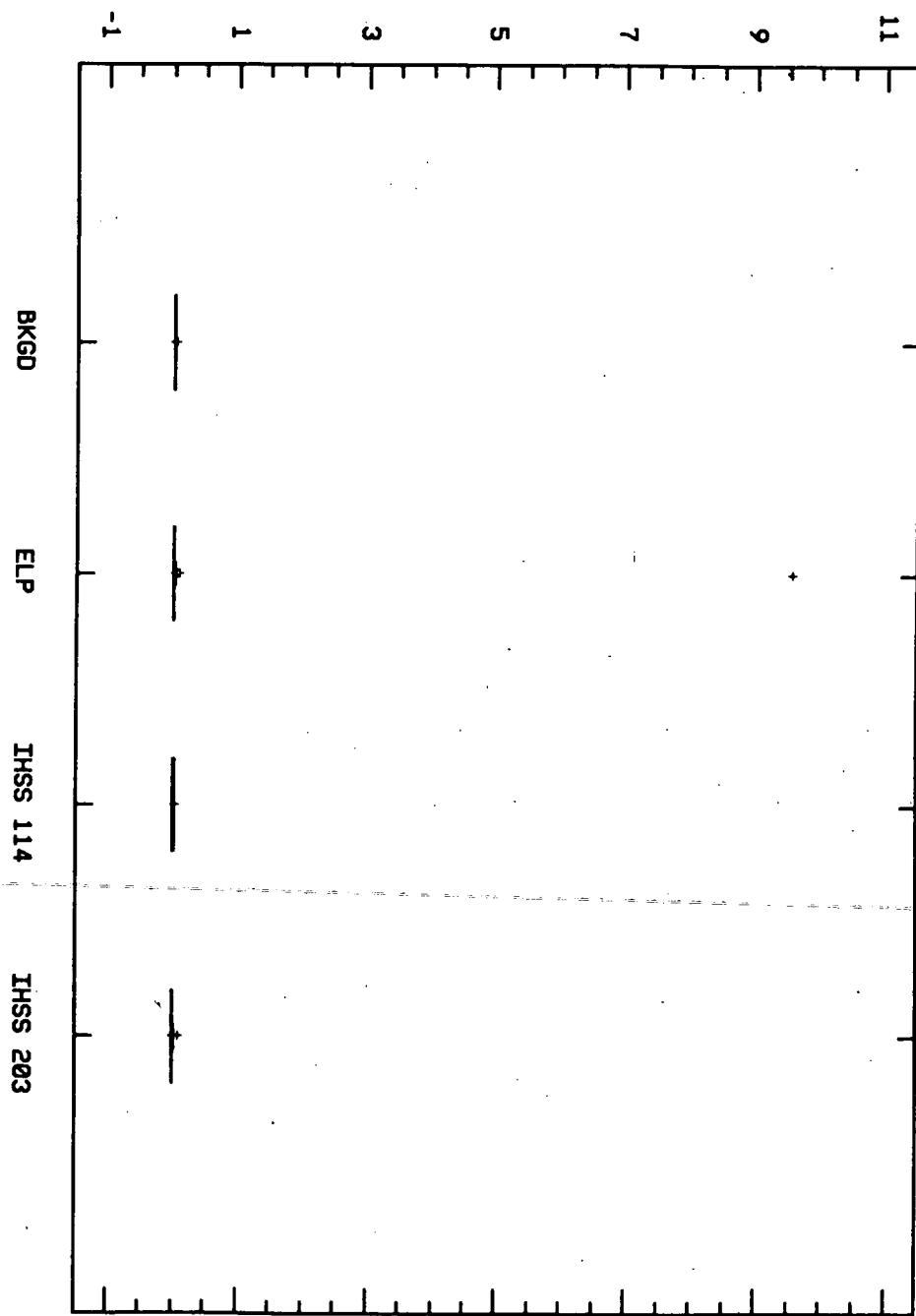


Calcium

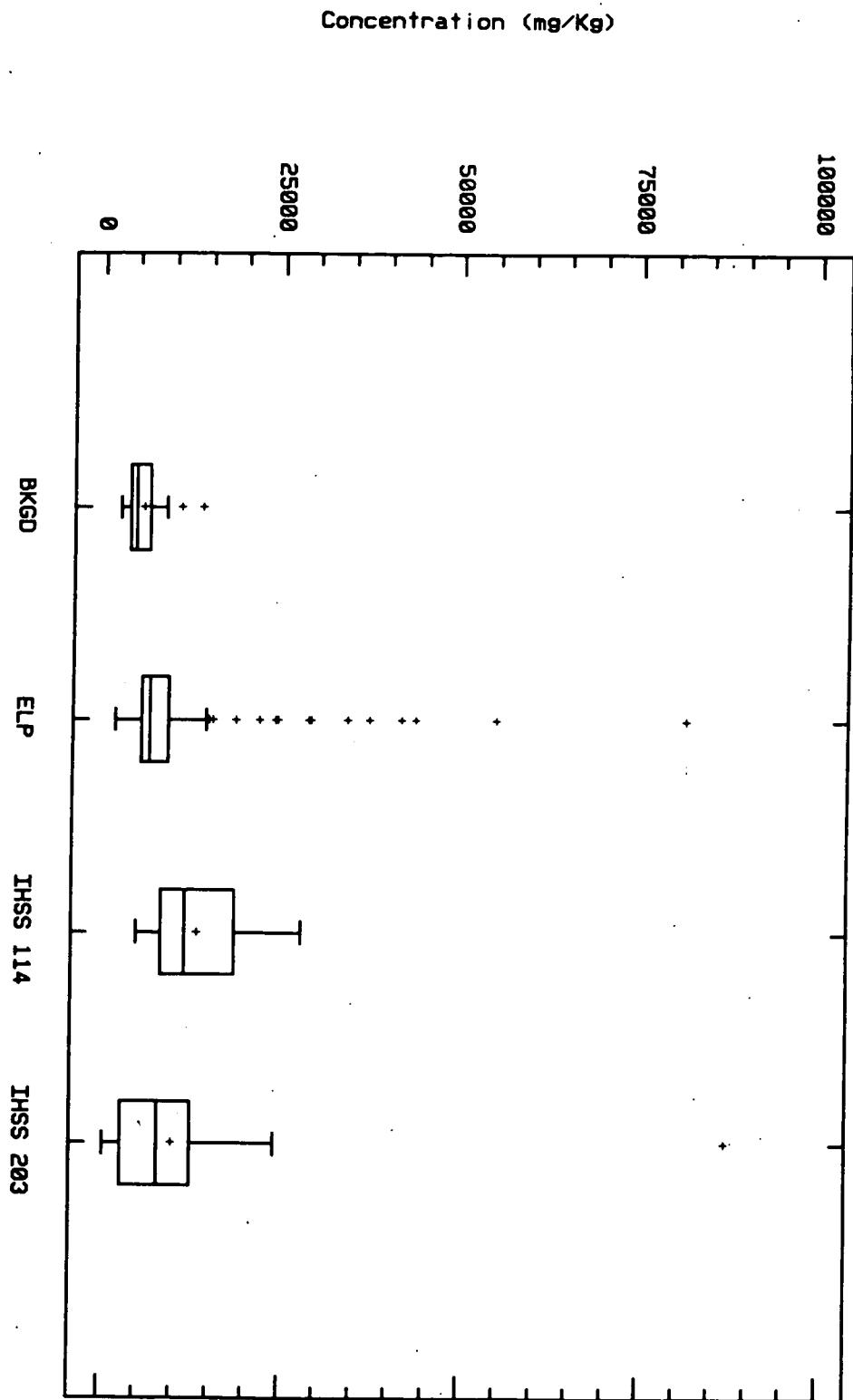
Surface Soils: 0-2 (inches)

(X 1.0E6)

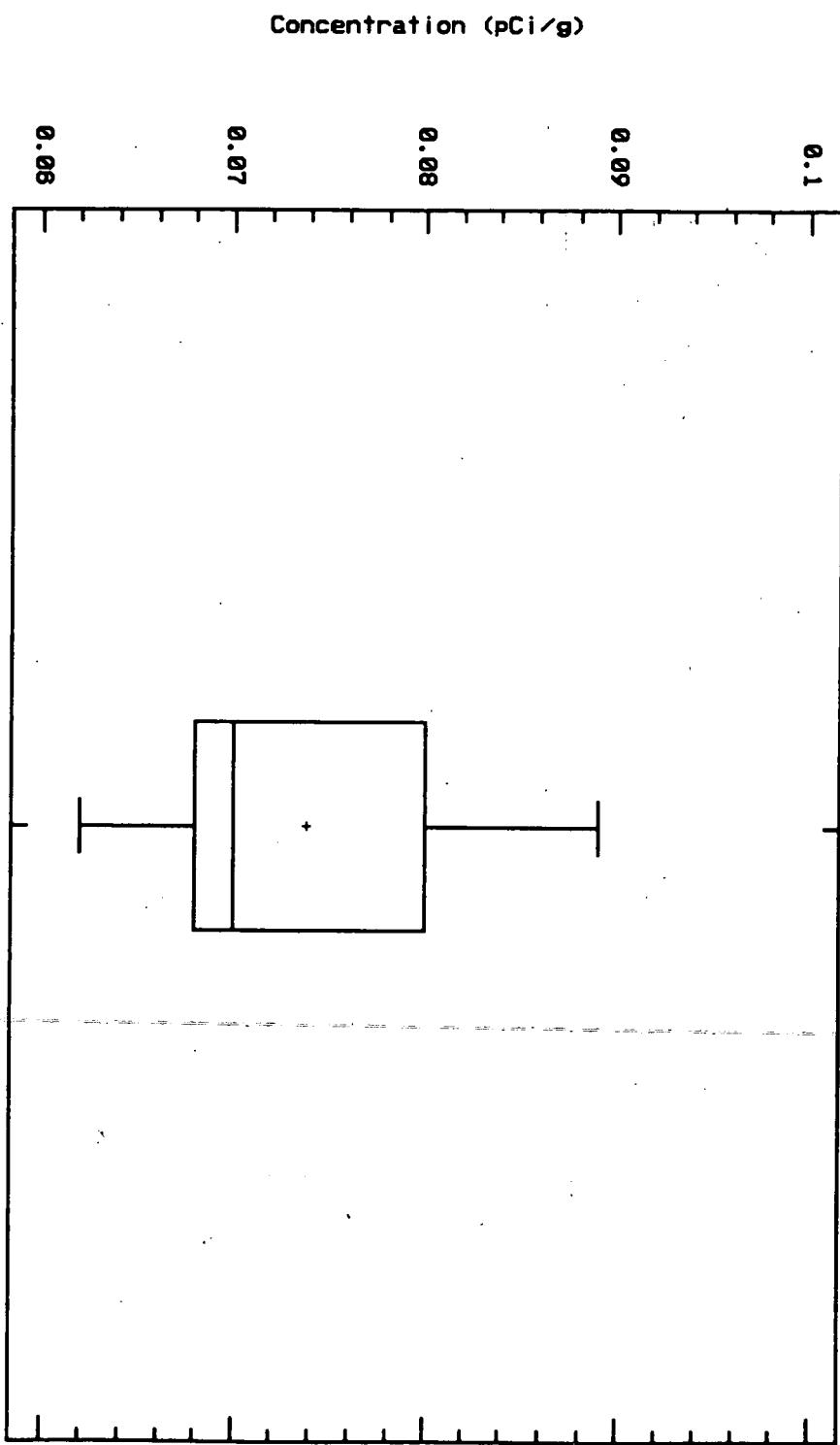
Concentration (mg/Kg)



Calcium
Surface Soils: 0-2 (inches)

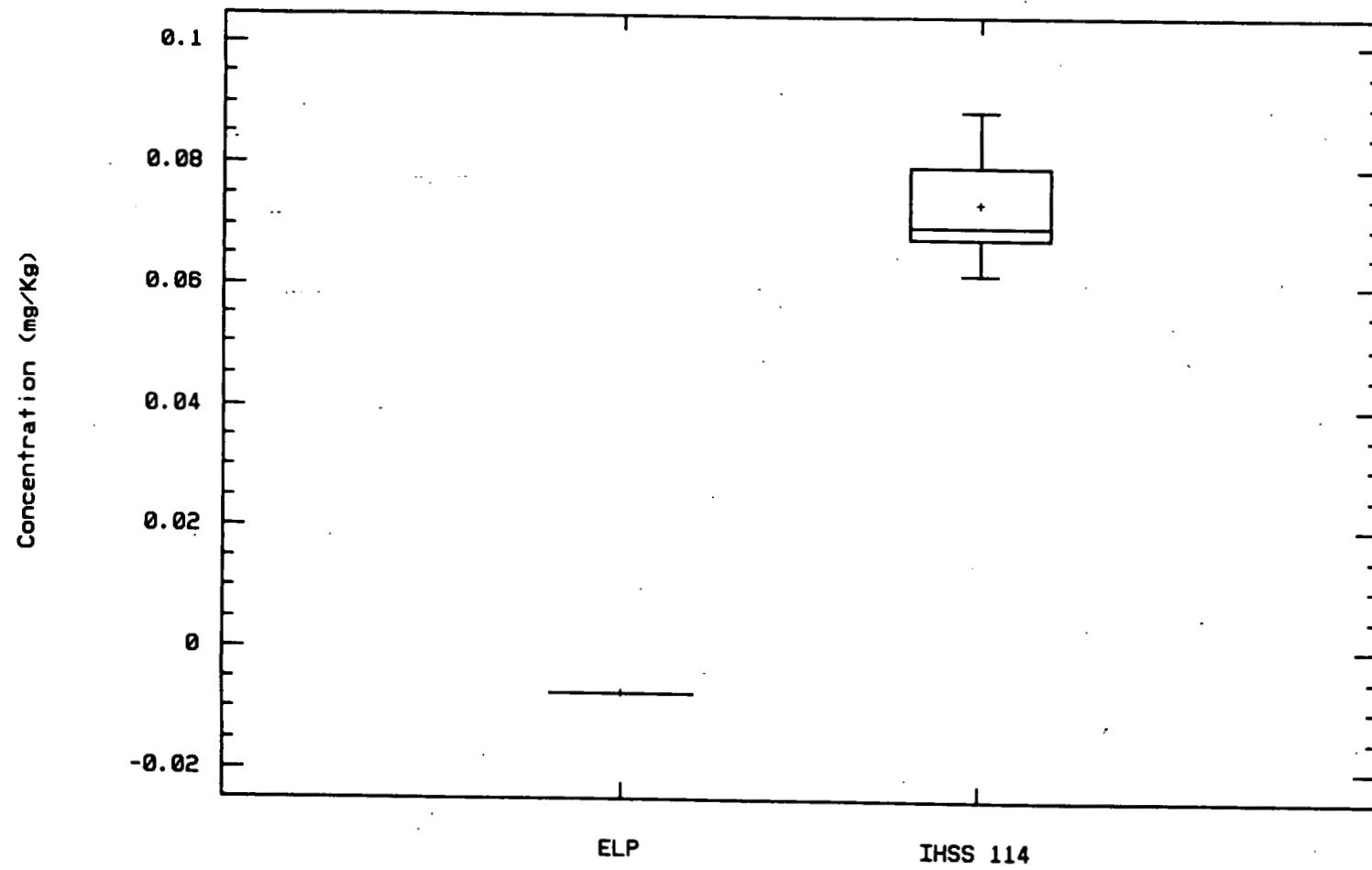


Cesium-134
Surface Soils: 0-2 (inches)

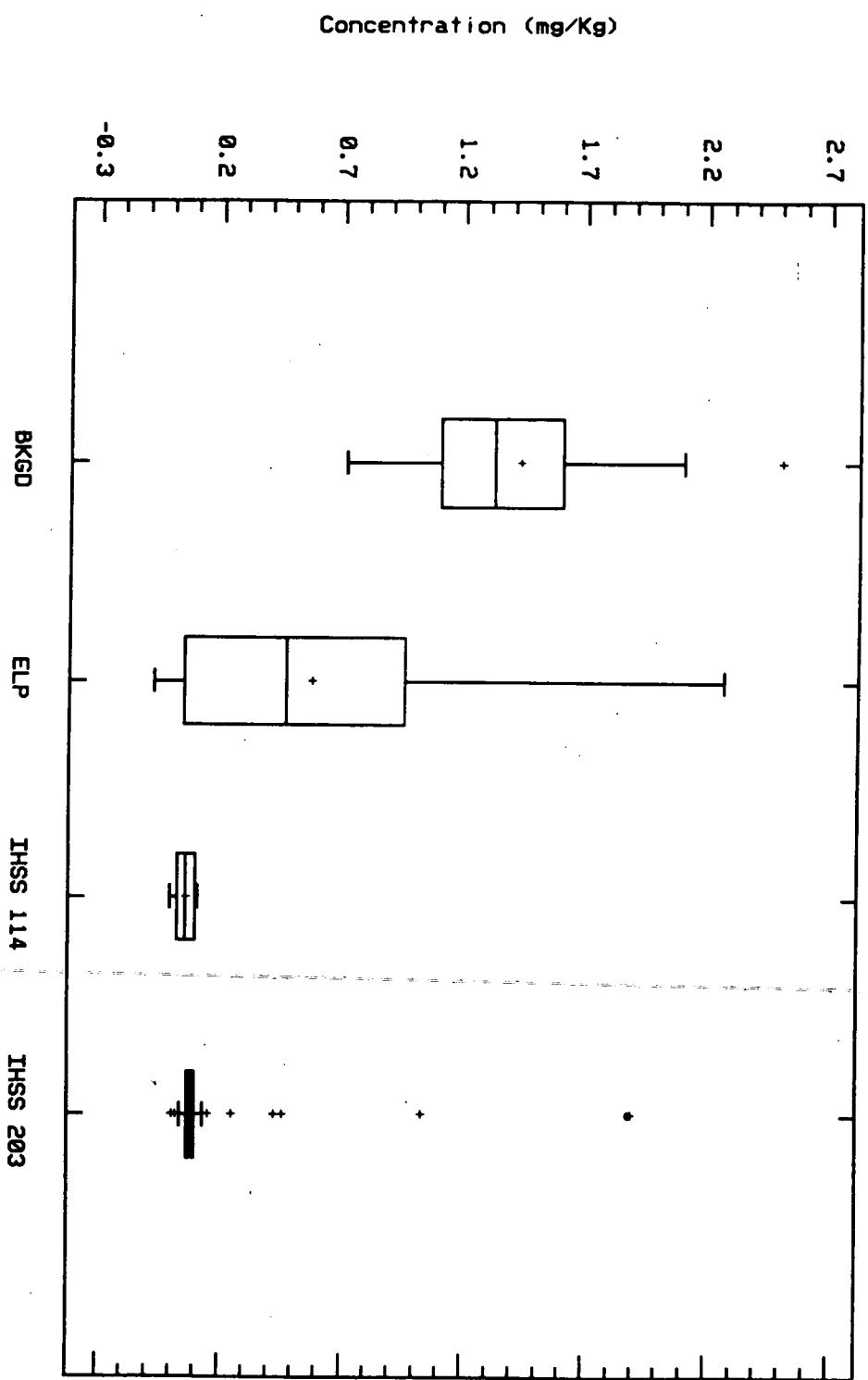


IHSS 114

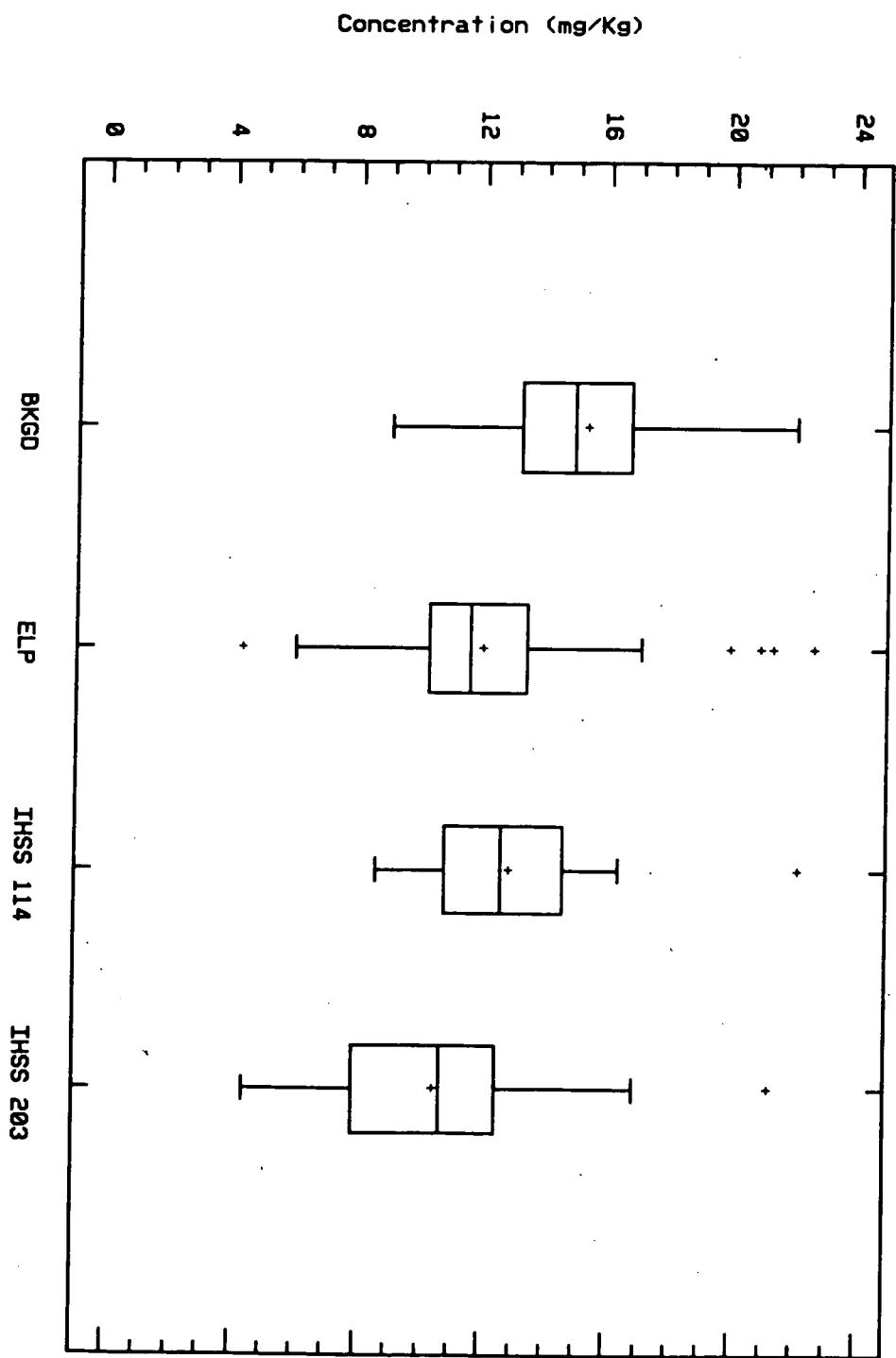
Cesium-134
Surface Soils: 0-2 (inches)



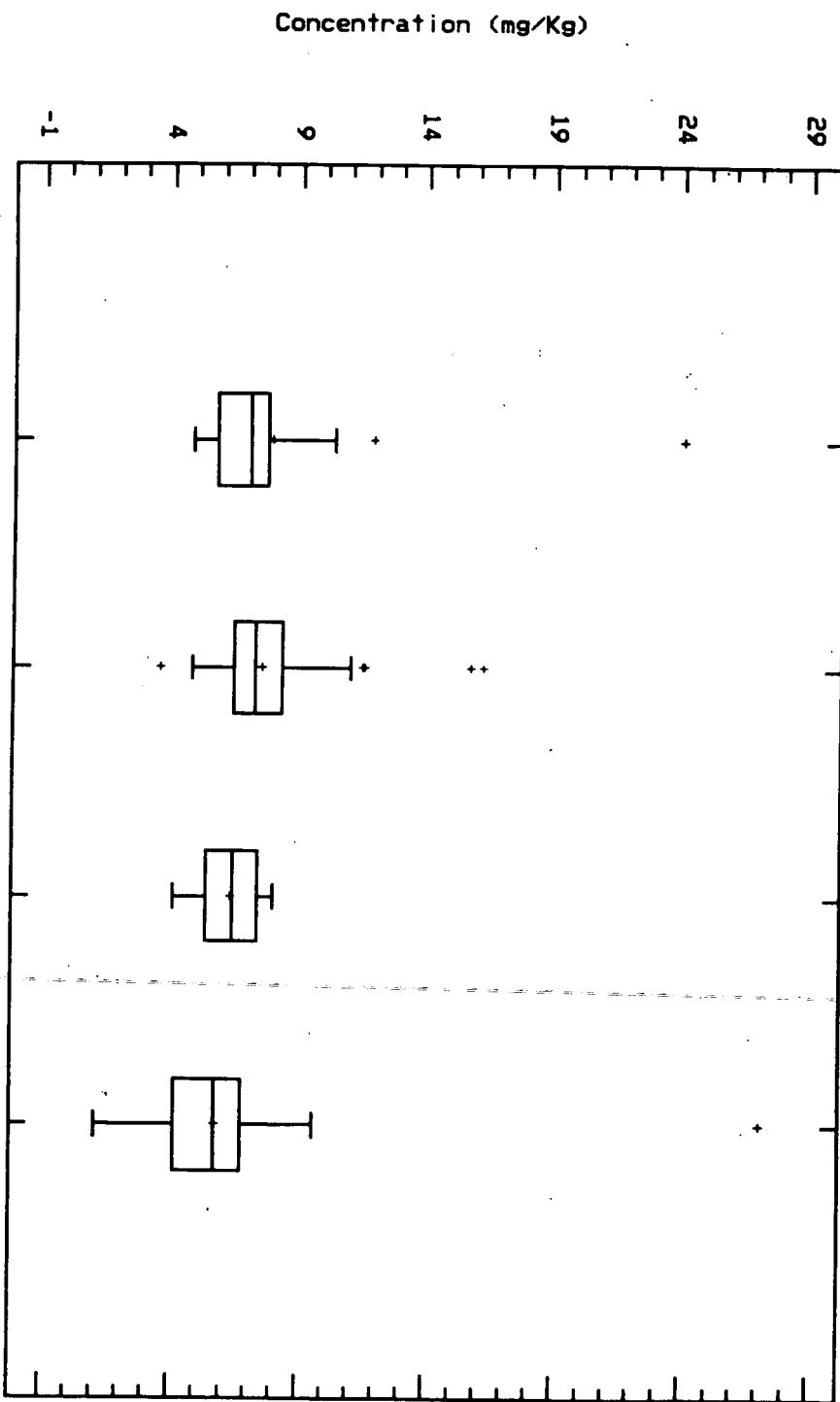
Cesium-137
Surface Soils: 0-2 (inches)



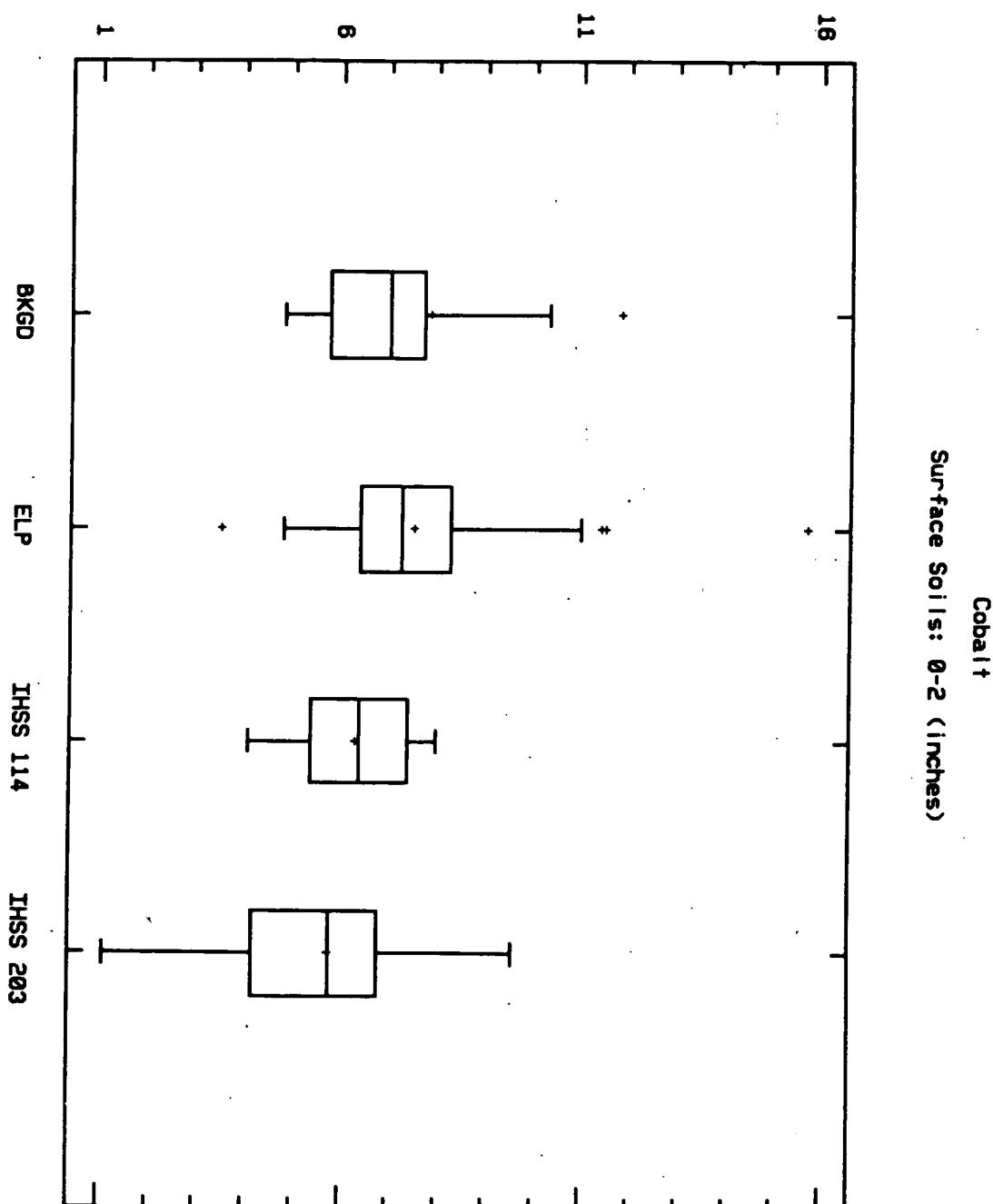
Chromium
Surface Soils: 0-2 (inches)



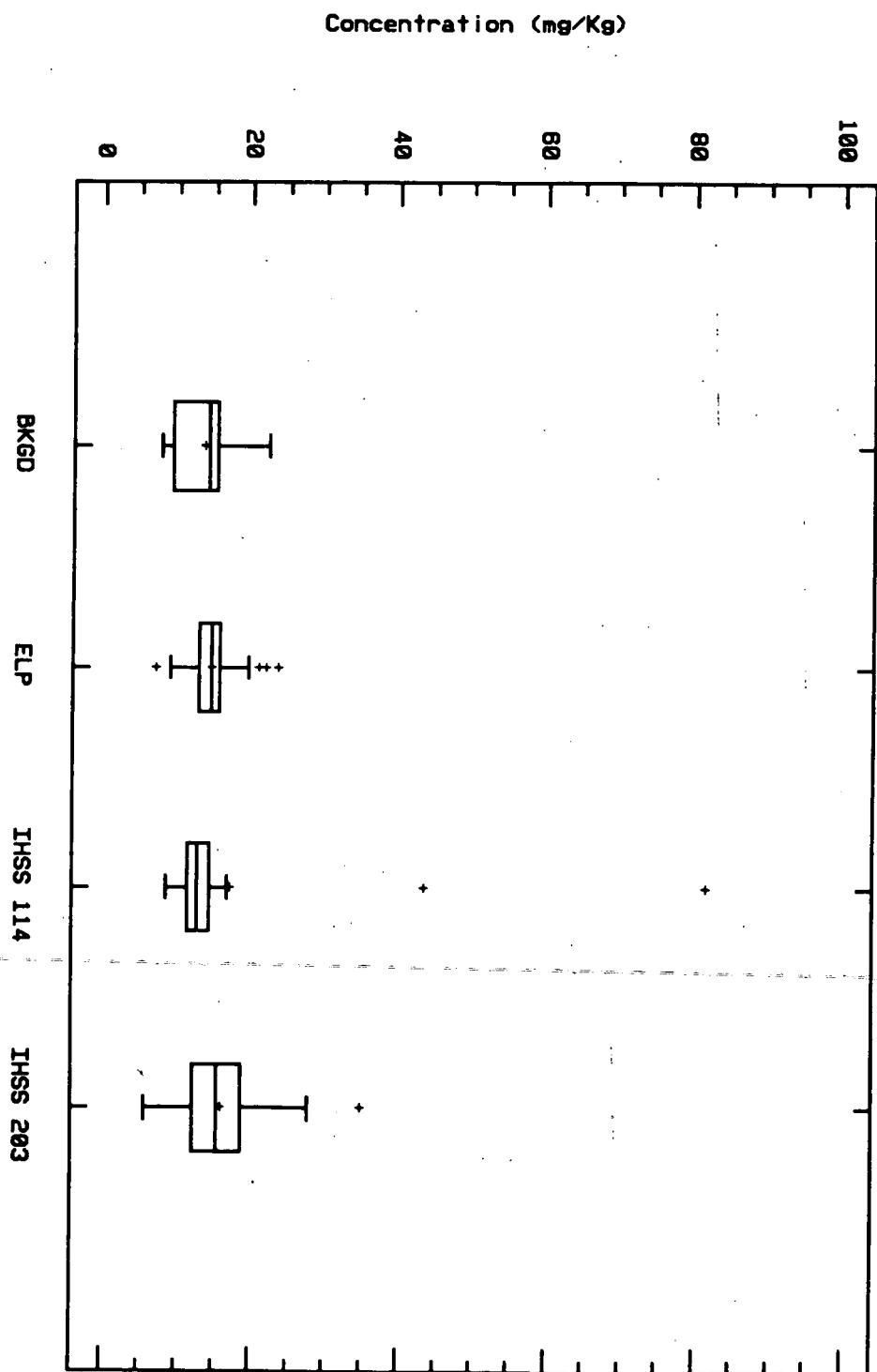
Cobalt
Surface Soils: 0-2 (inches)



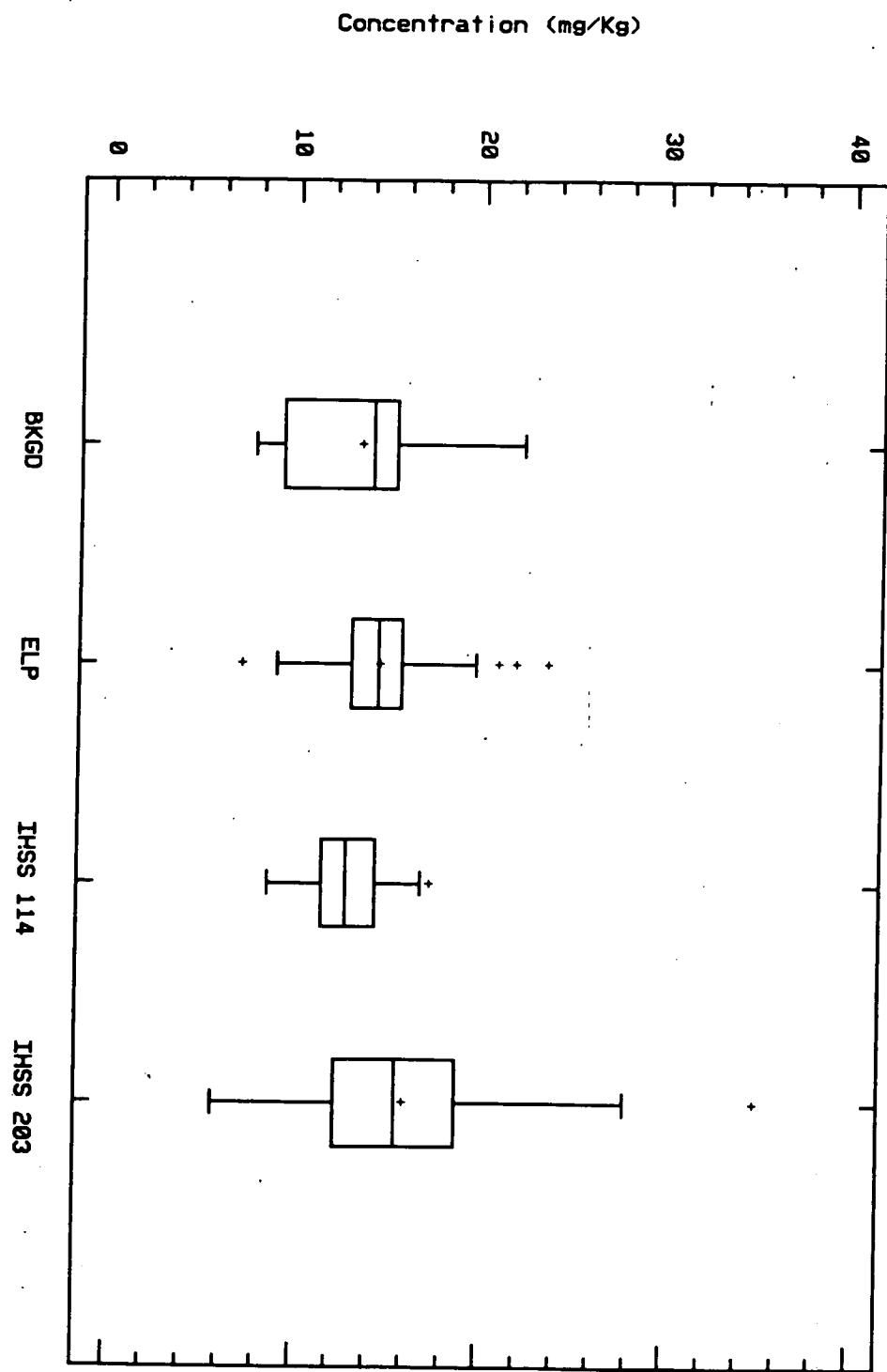
Concentration (mg/Kg)



Copper
Surface Soils: 0-2 (inches)

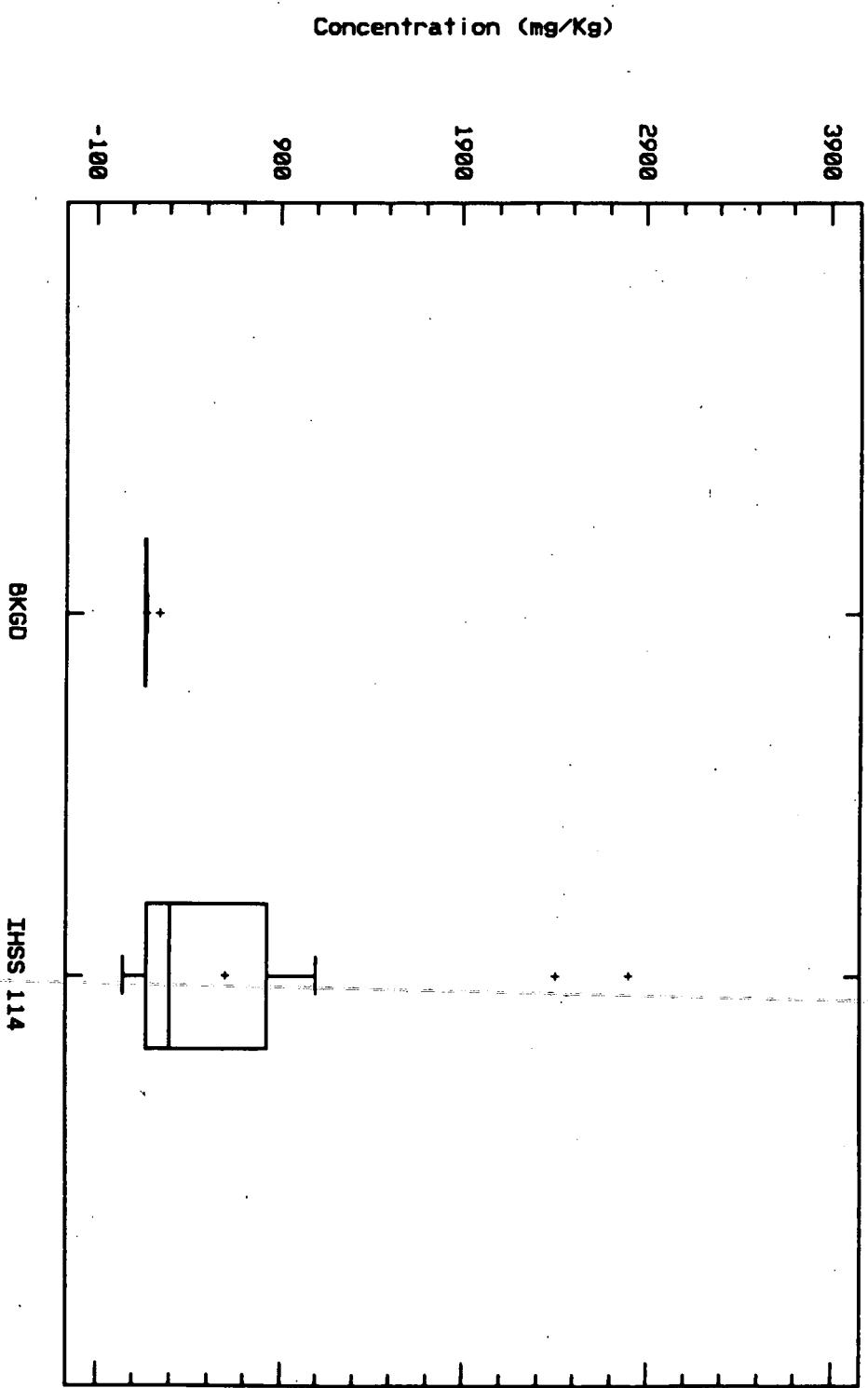


Copper
Surface Soils: 0-2 (inches)

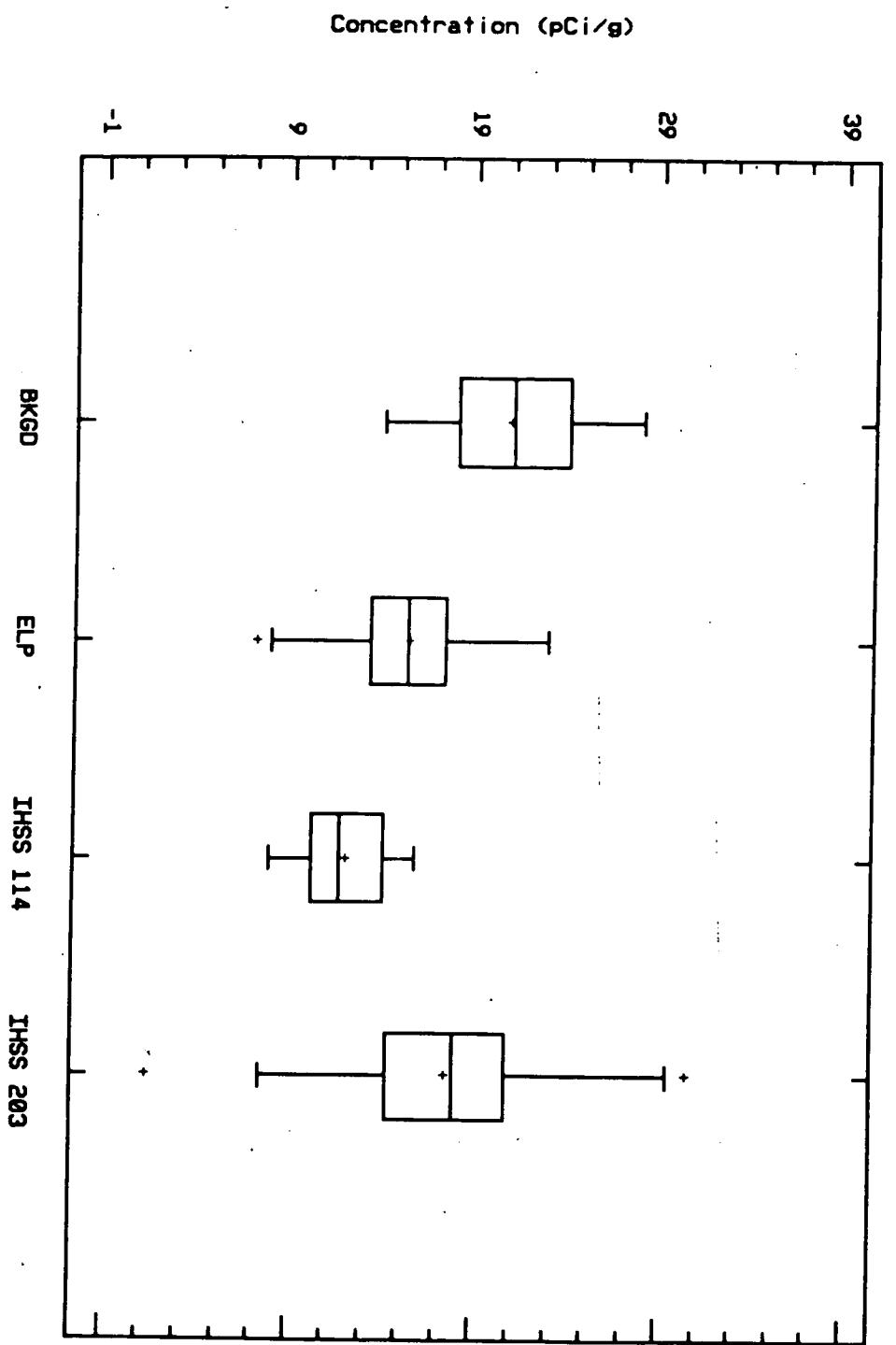


Fluoranthene

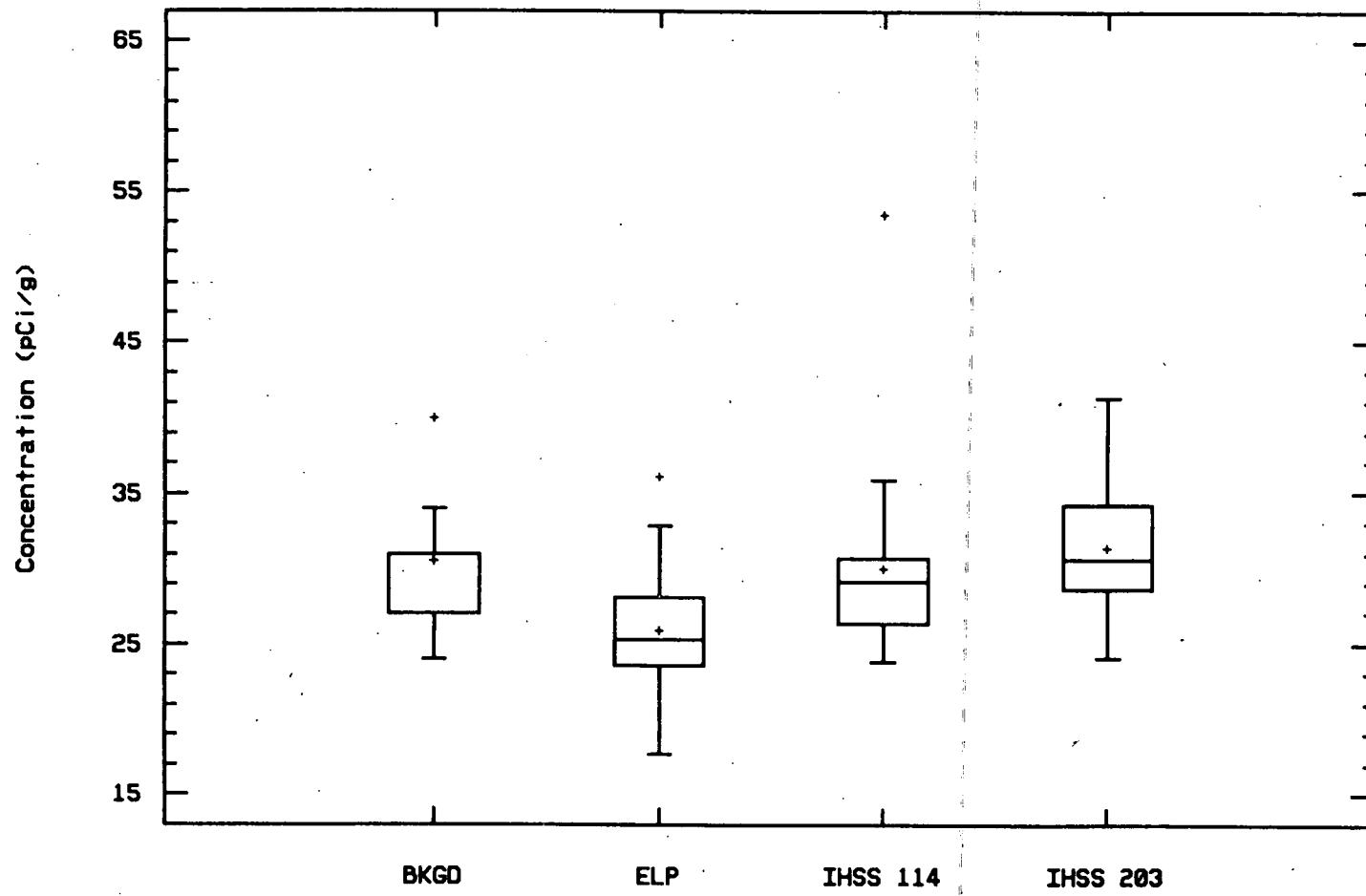
Surface Soils: 0-2 (inches)



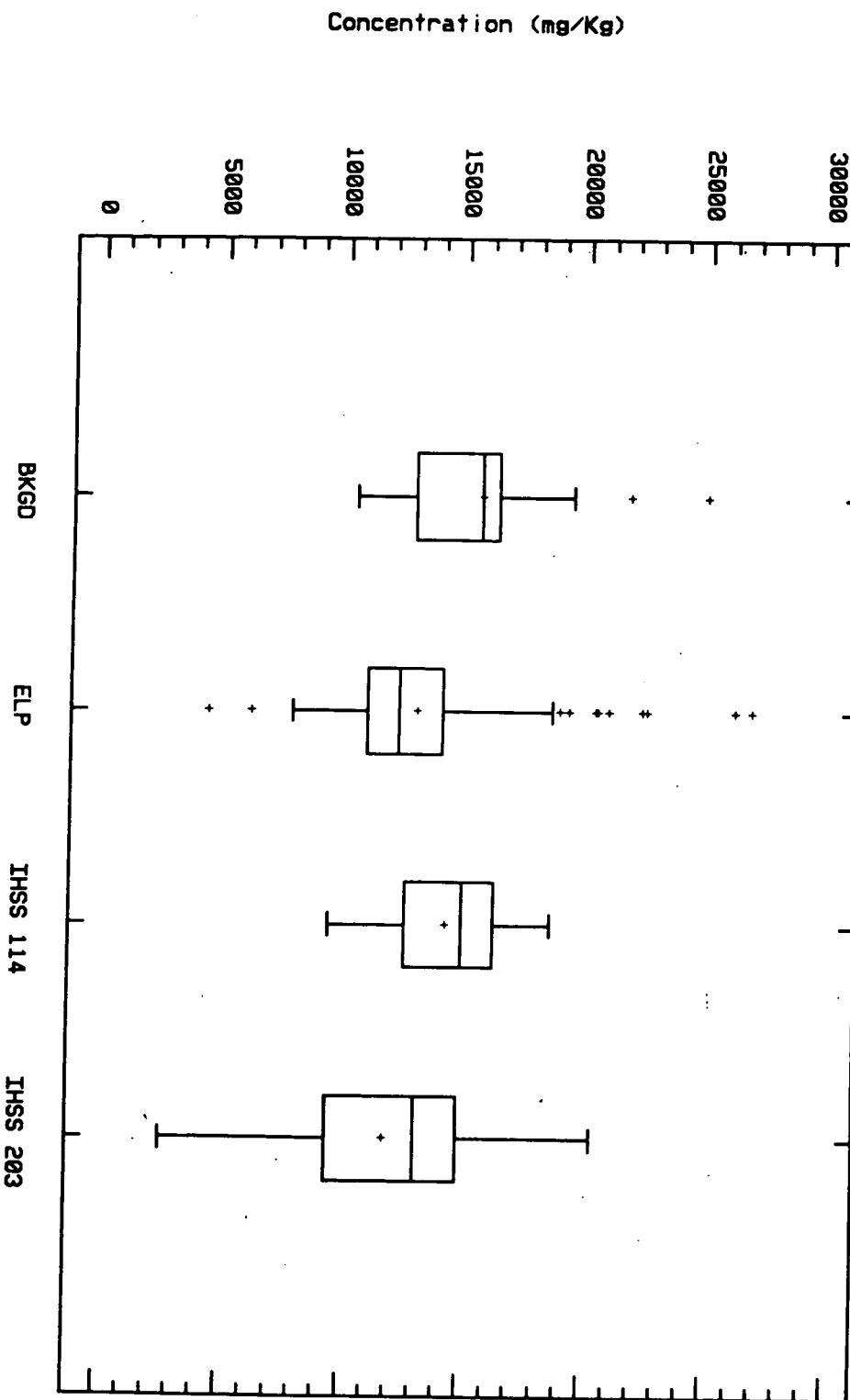
Gross Alpha
Surface Soils: 0-2 (inches)



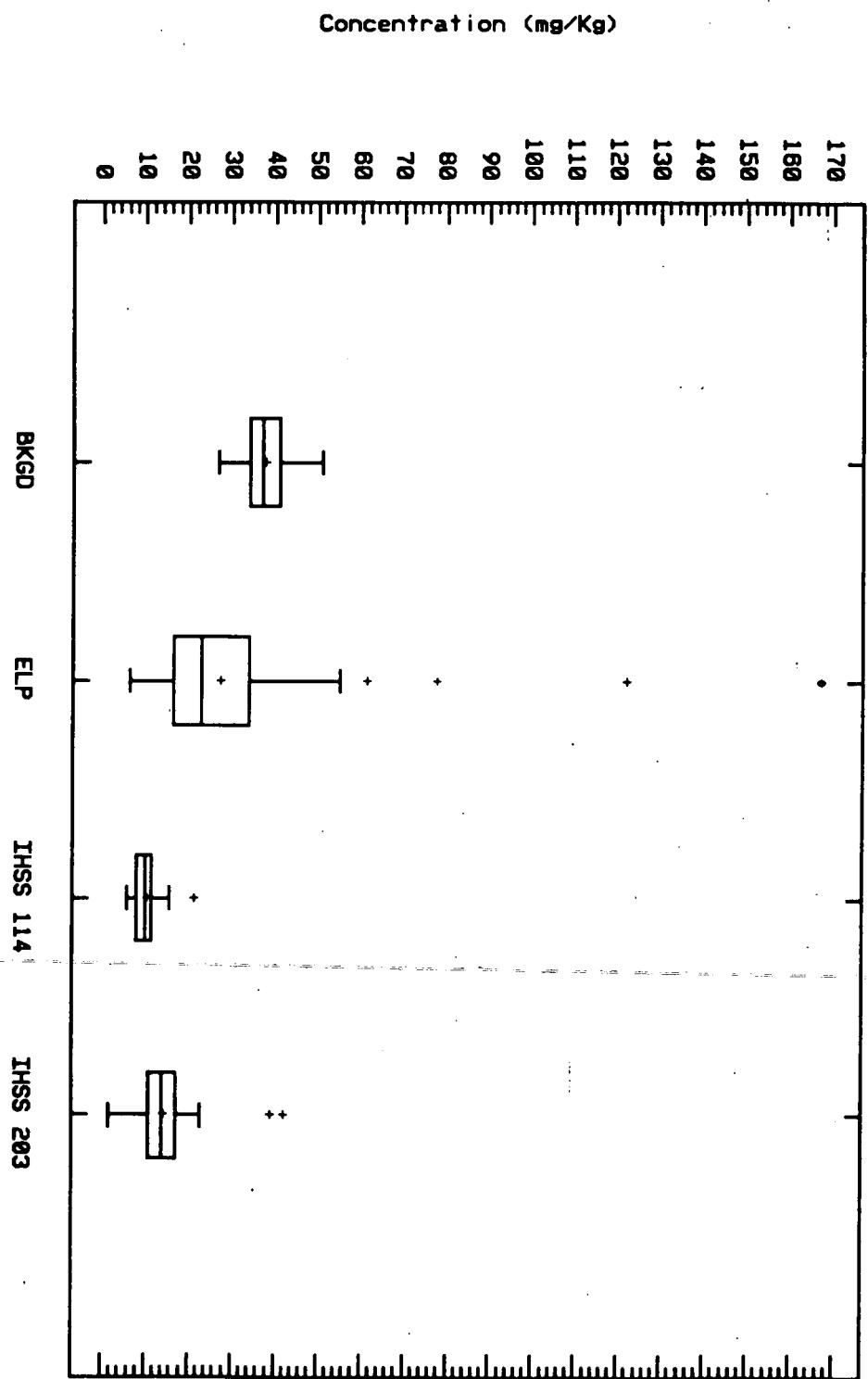
Gross Beta
Surface Soils: 0-2 (inches)



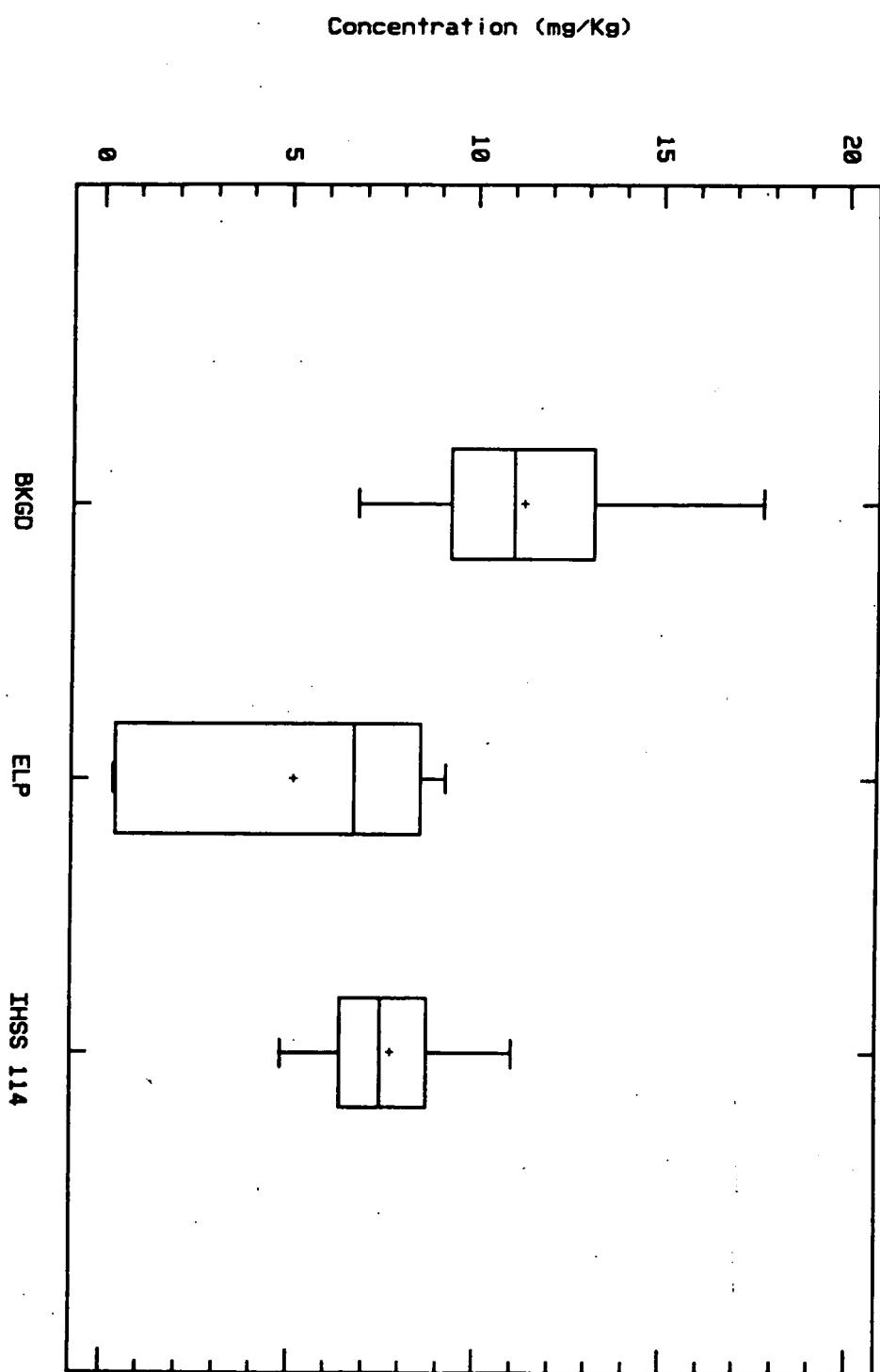
Iron
Surface Soils: 0-2 (inches)



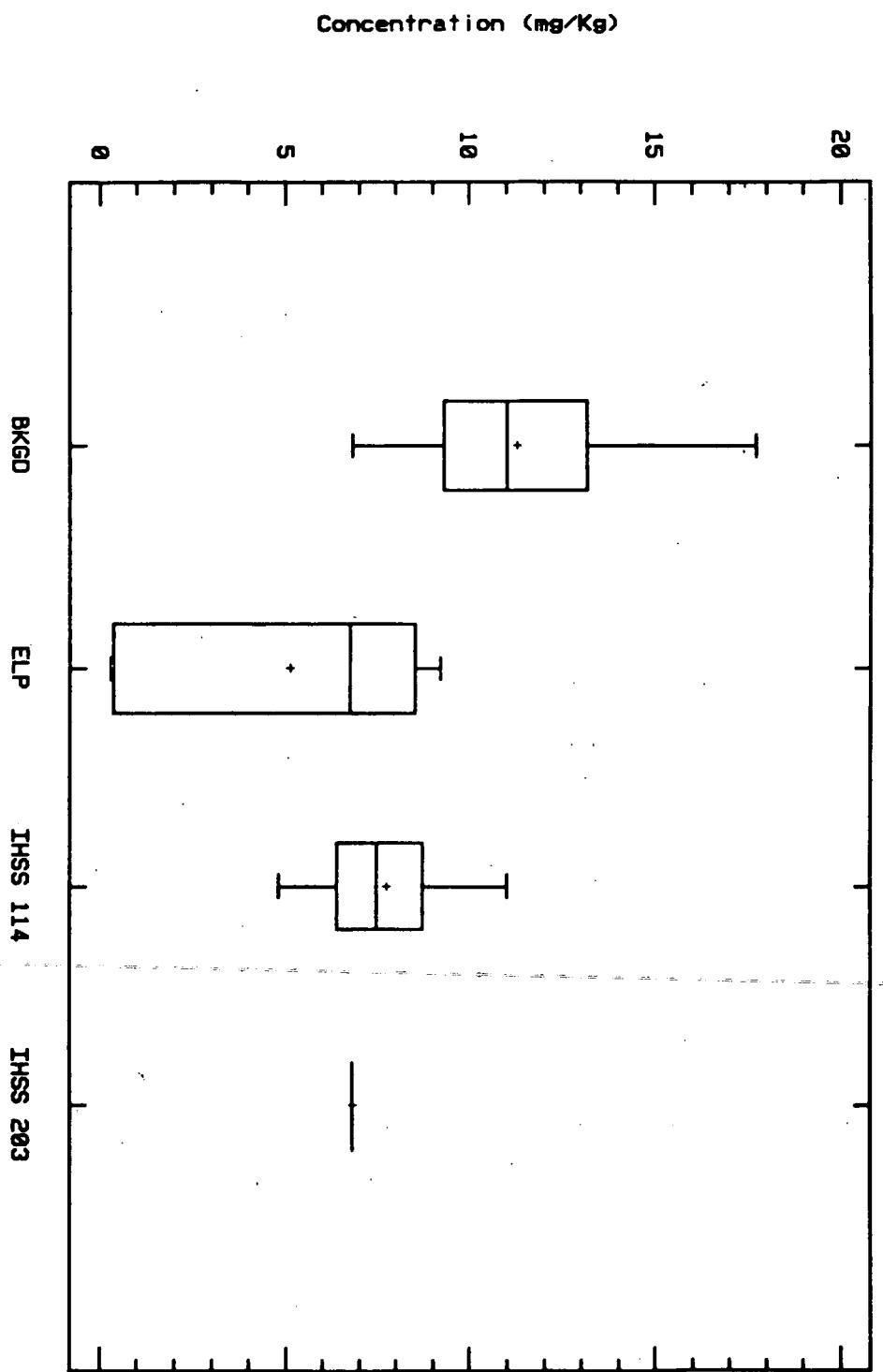
Lead
Surface Soils: 0-2 (inches)



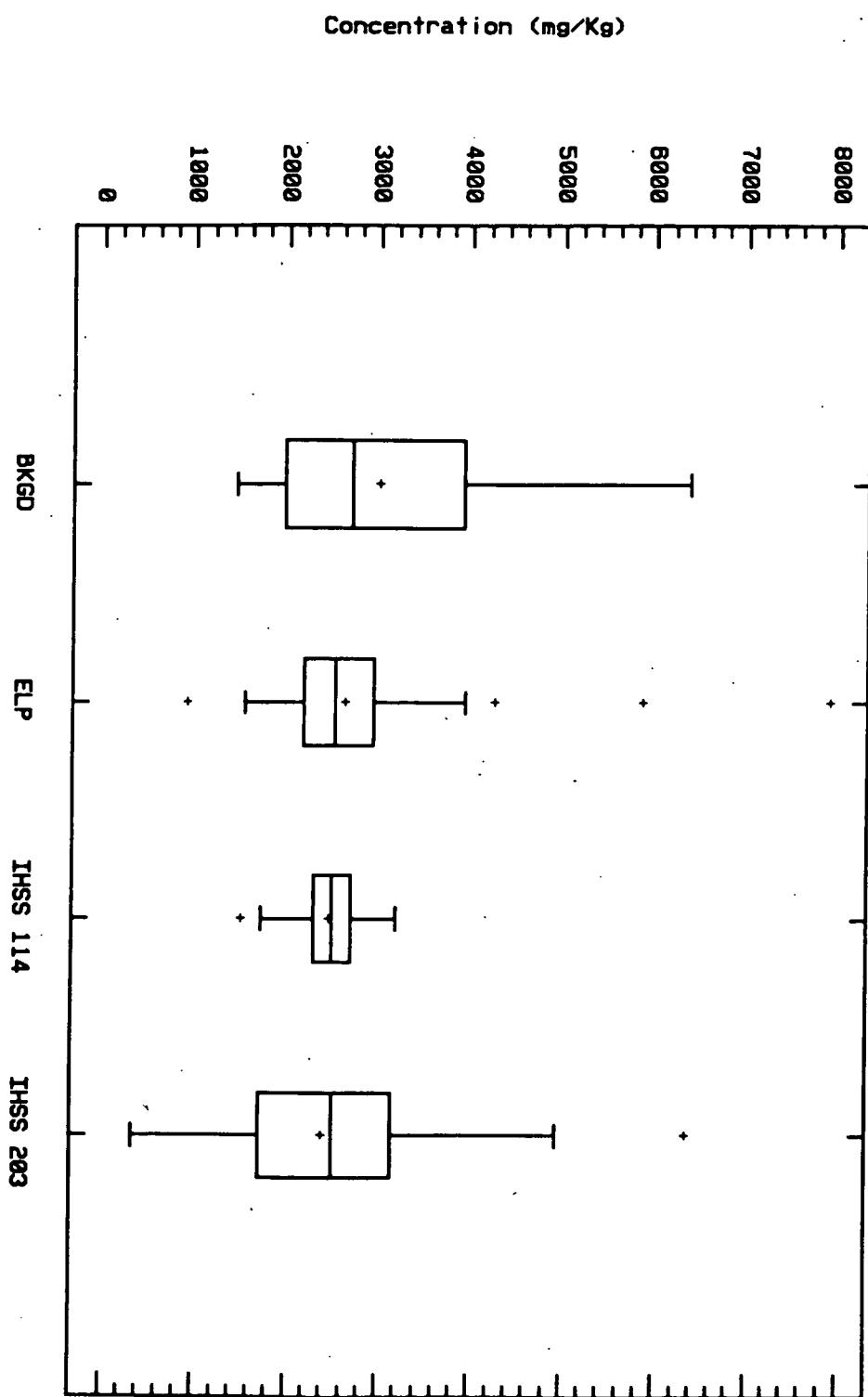
Lithium
Surface Soils: 0-2 (inches)



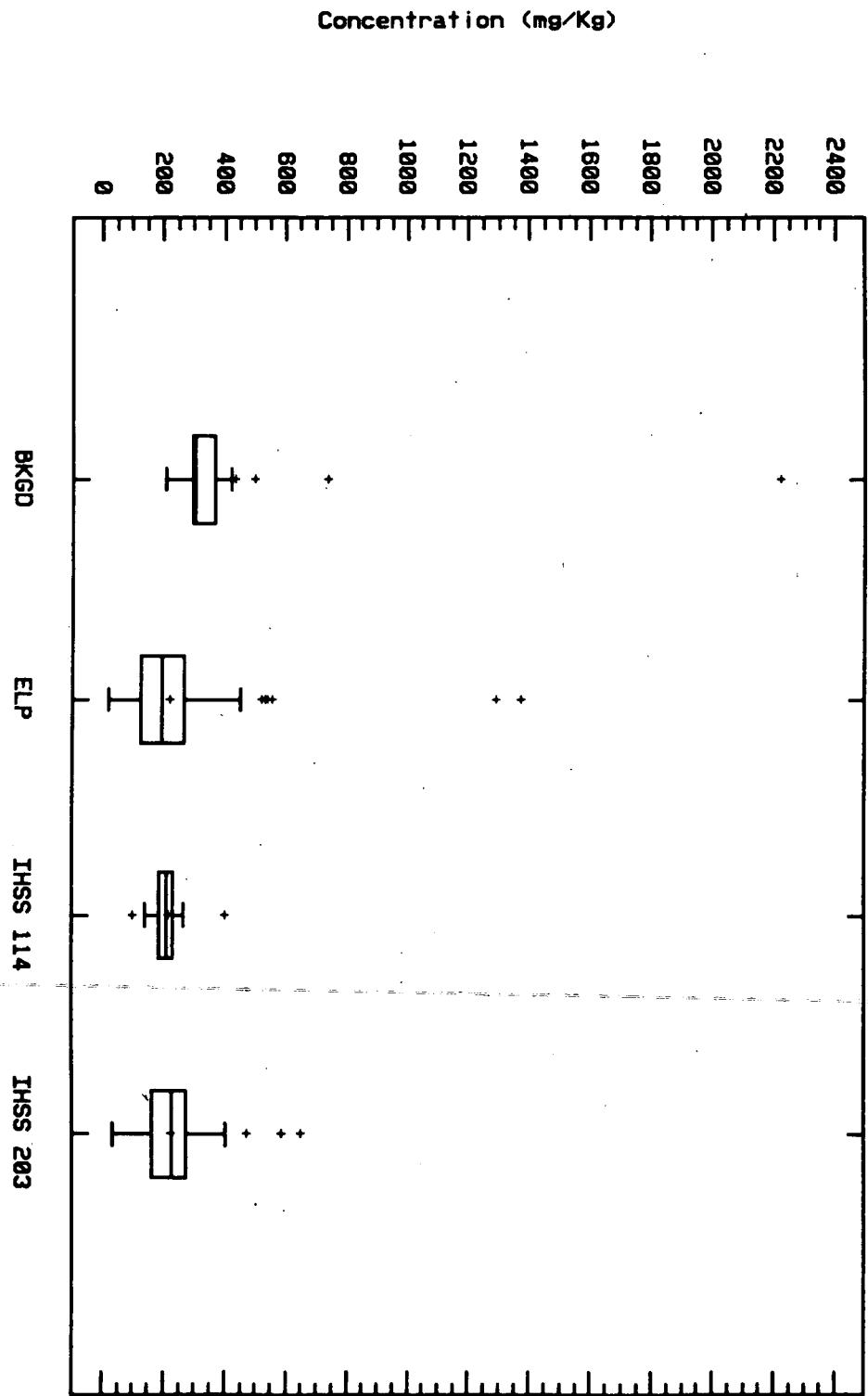
Lithium
Surface Soils: 0-2 (inches)



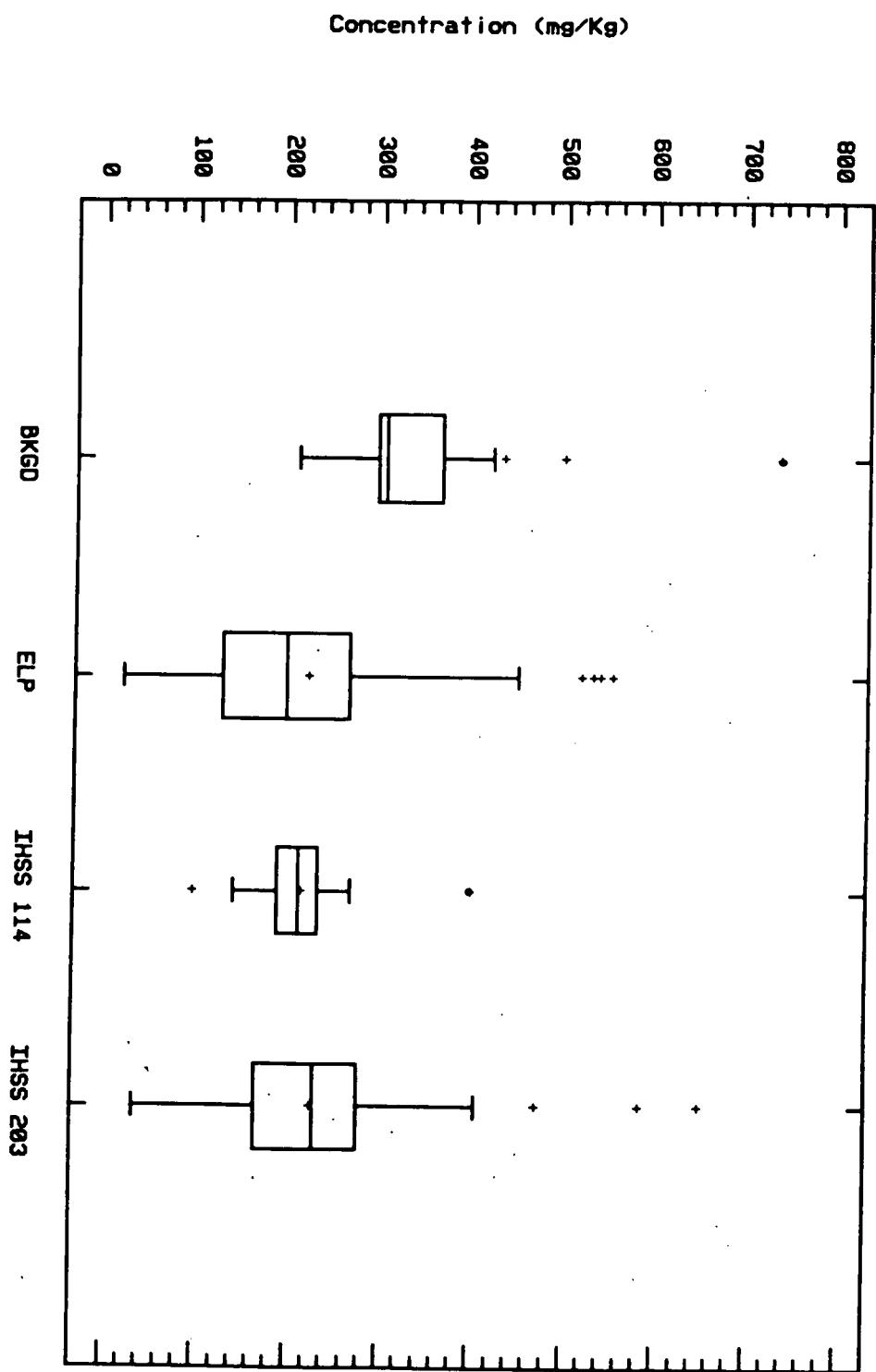
Magnesium
Surface Soils: 0-2 (inches)



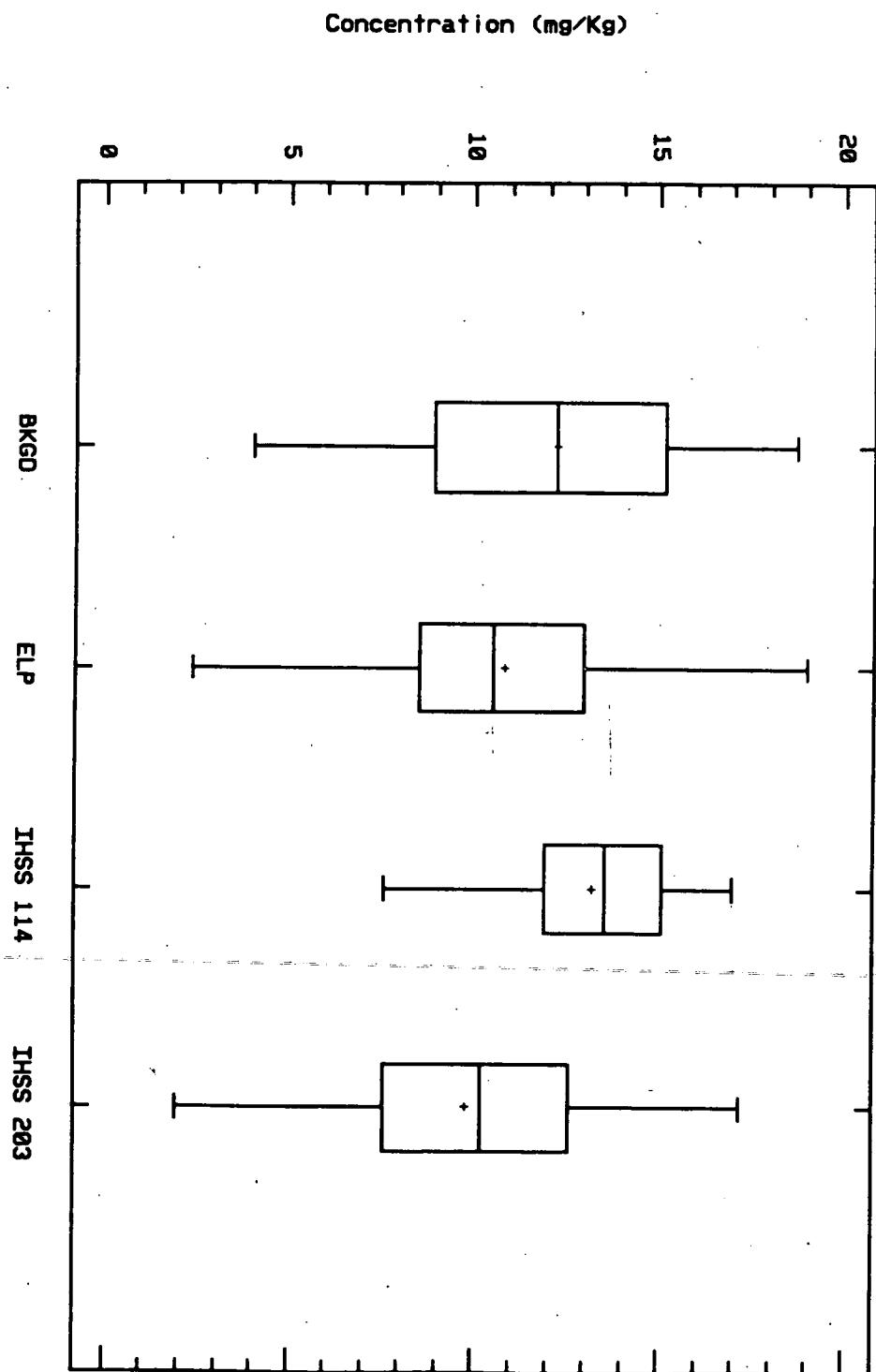
Manganese
Surface Soils: 0-2 (inches)



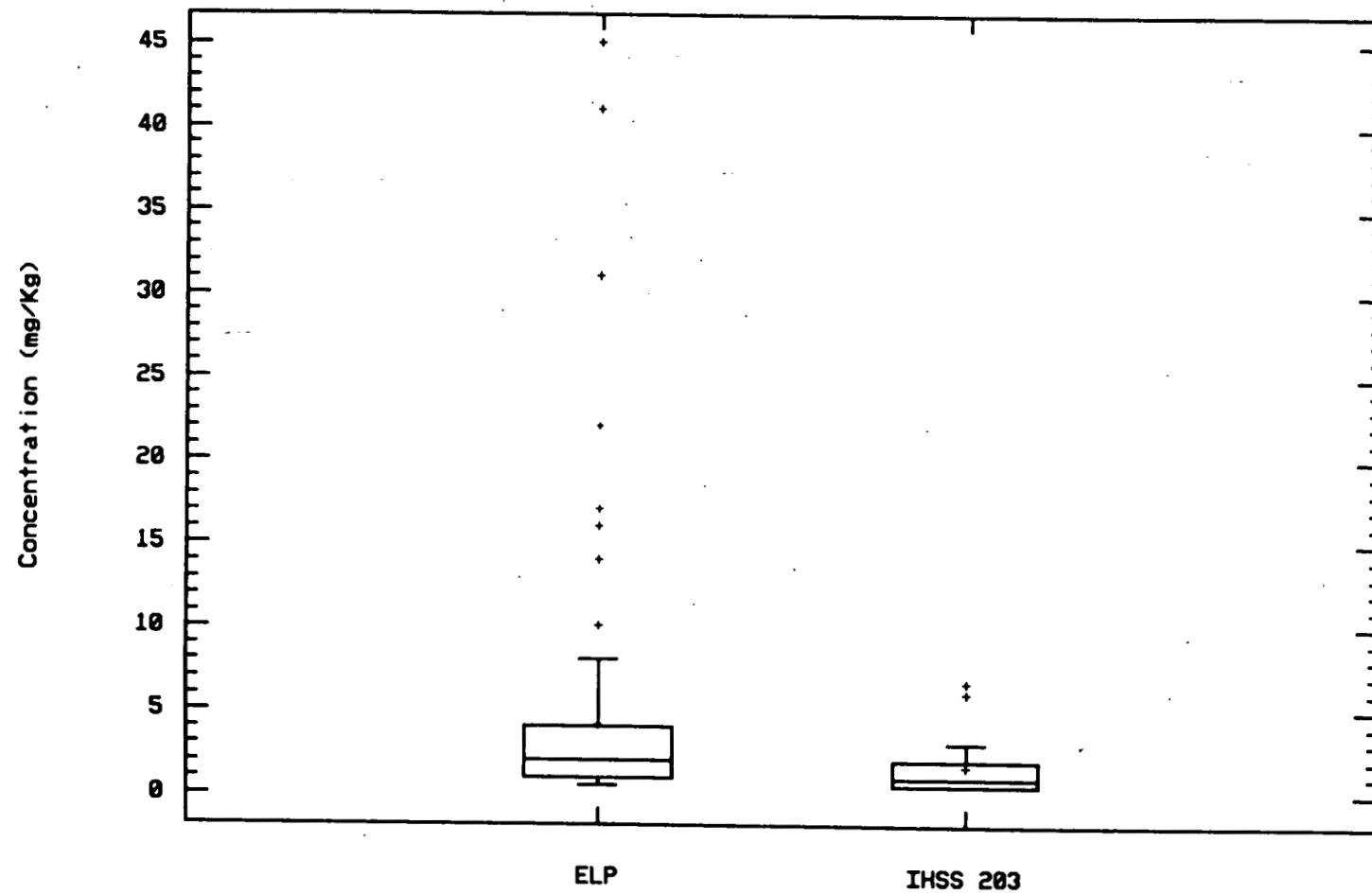
Manganese
Surface Soils: 0-2 (inches)



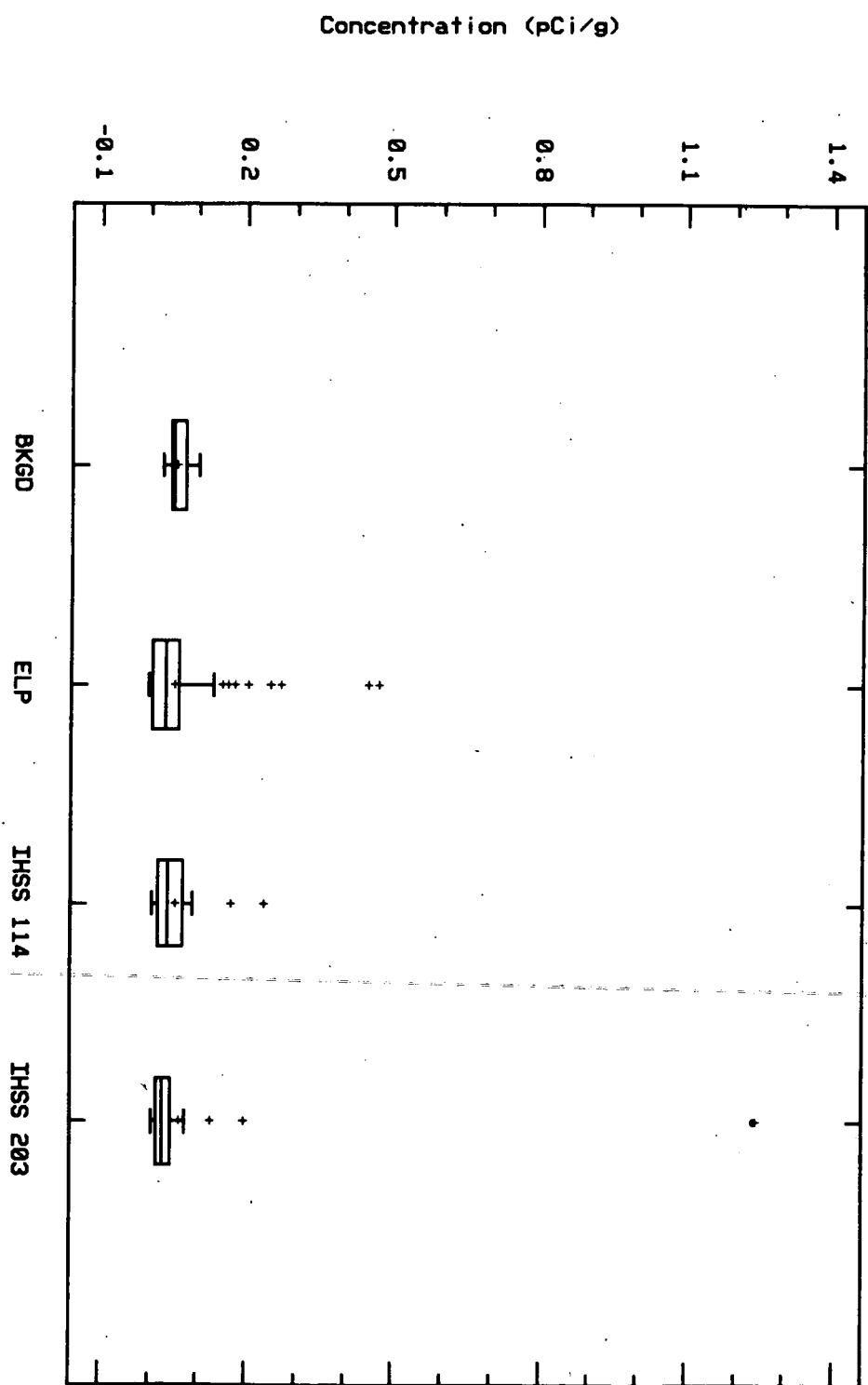
Nickel
Surface Soils: 0-2 (inches)



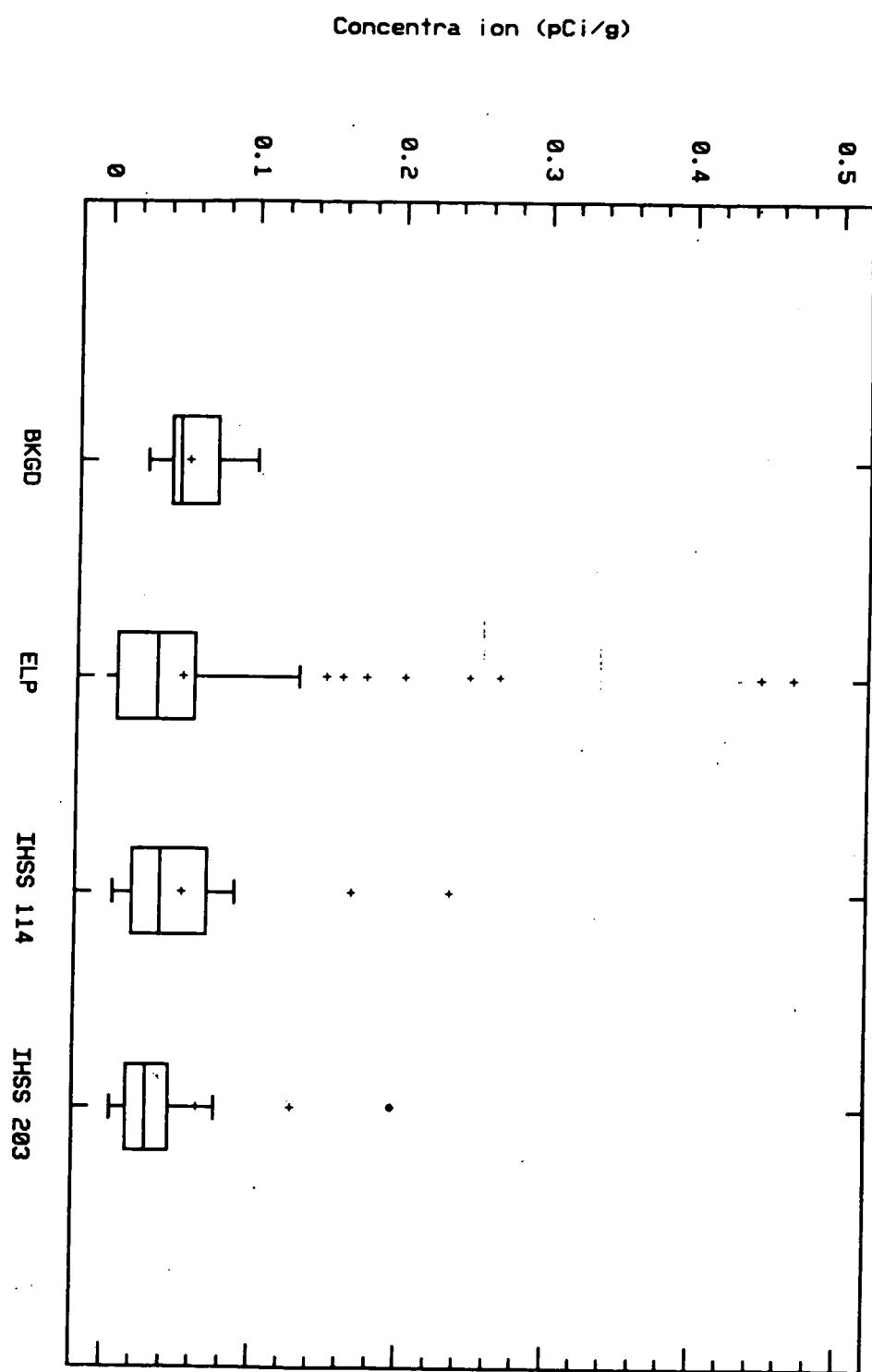
Nitrite/Nitrate
Surface Soils: 0-2 (inches)



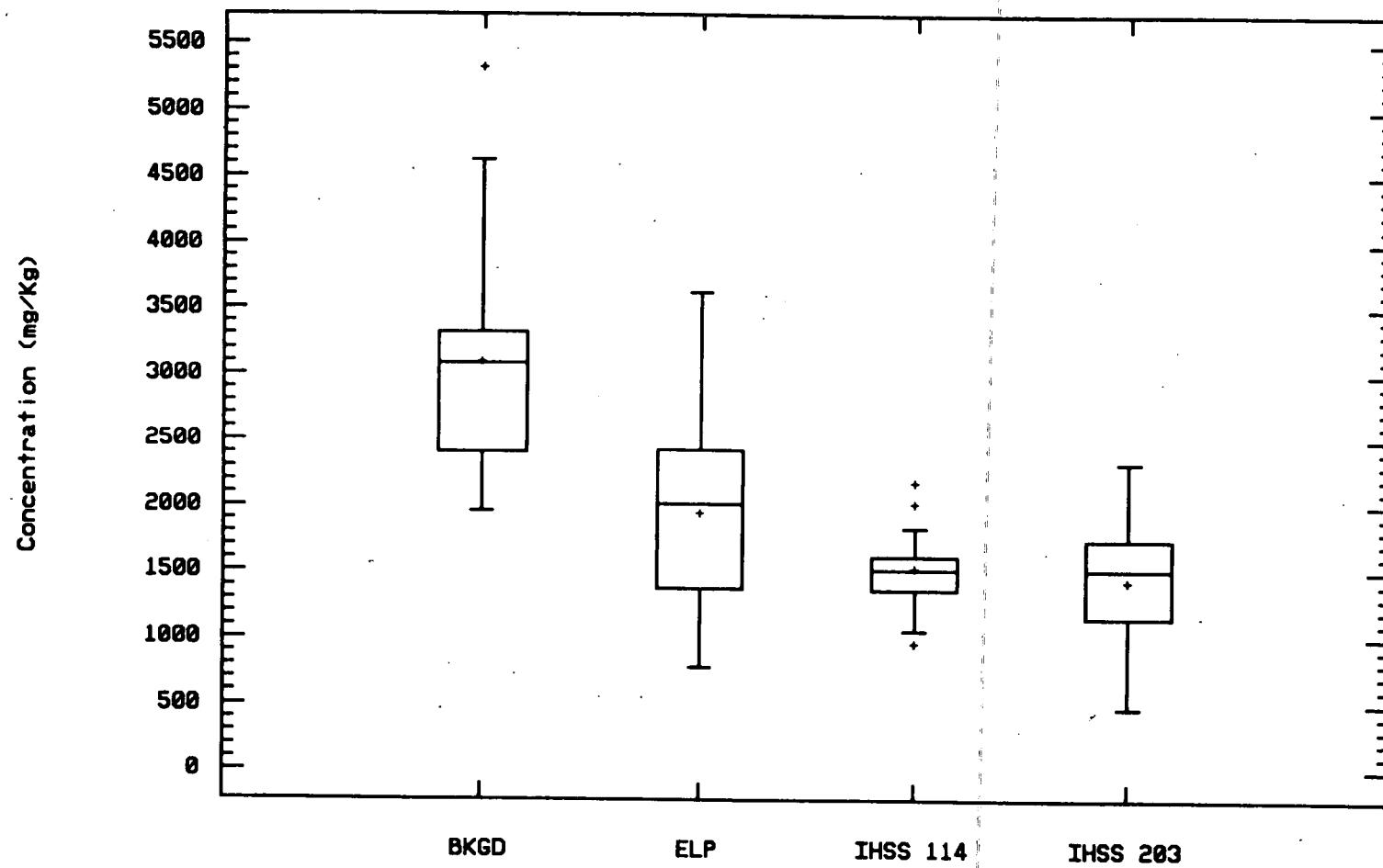
Plutonium-239/240
Surface Soils: 0-2 (inches)



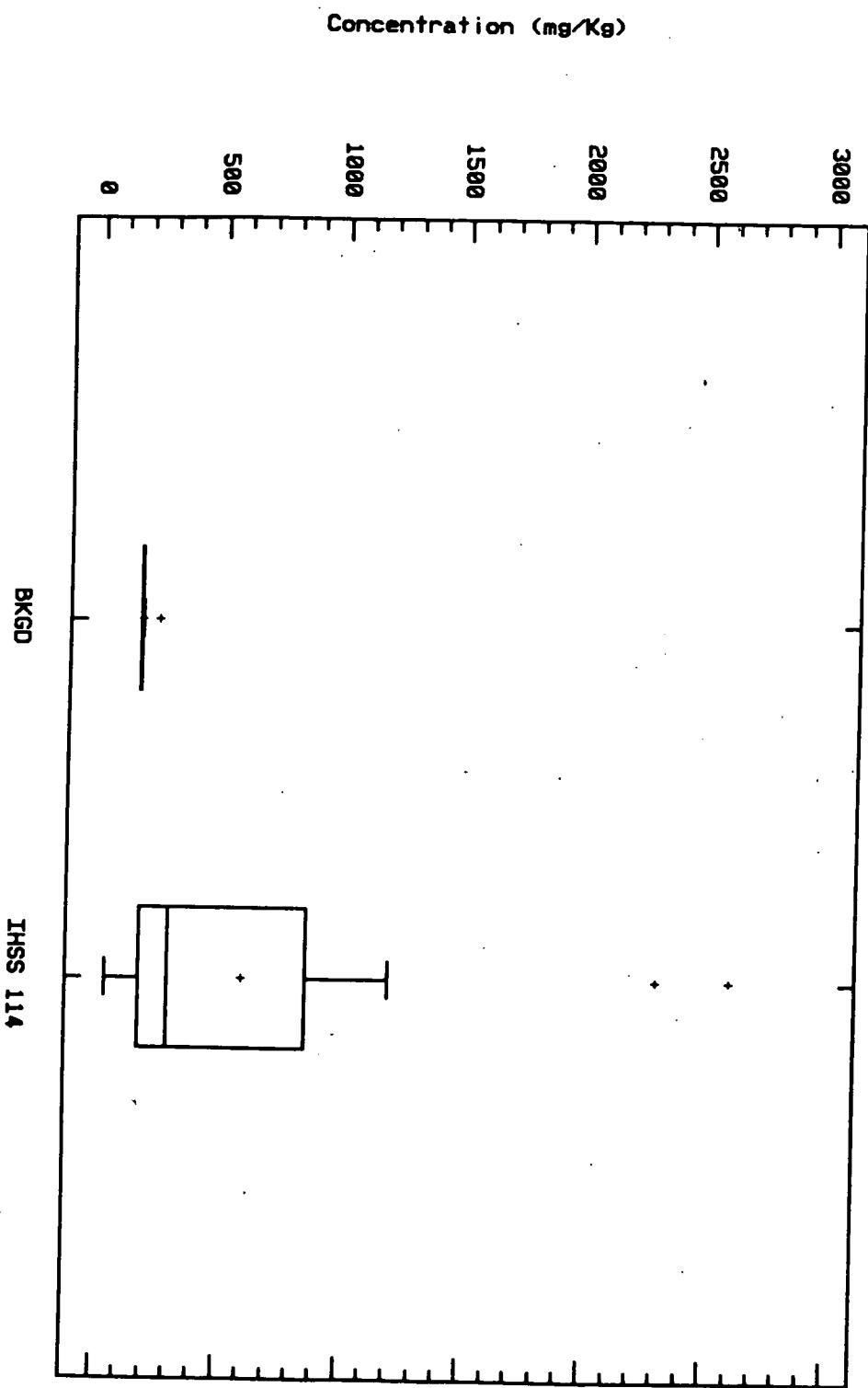
Plutonium-239/240
Surface Soils: 0-2 (inches)



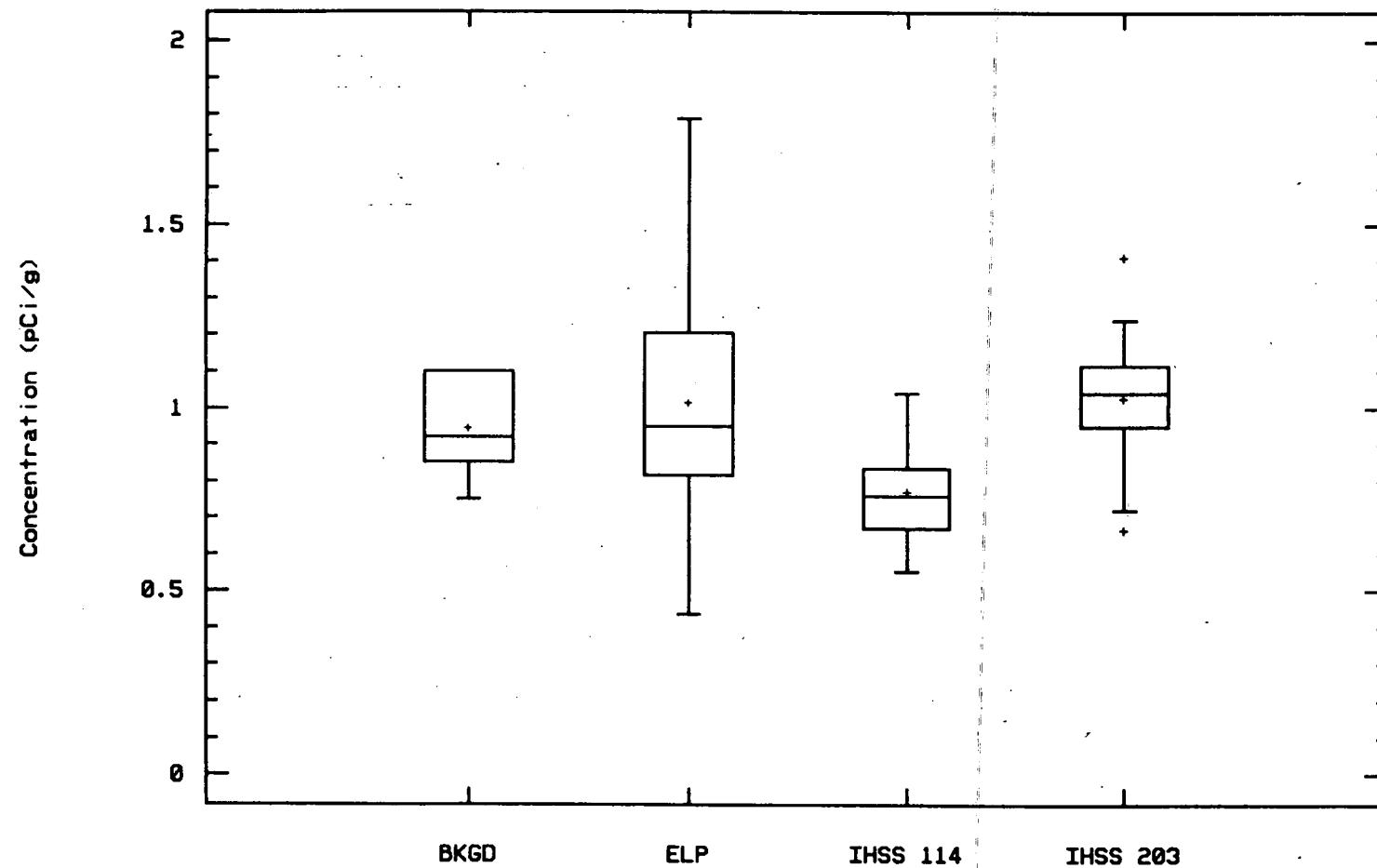
Potassium
Surface Soils: 0-2 (inches)



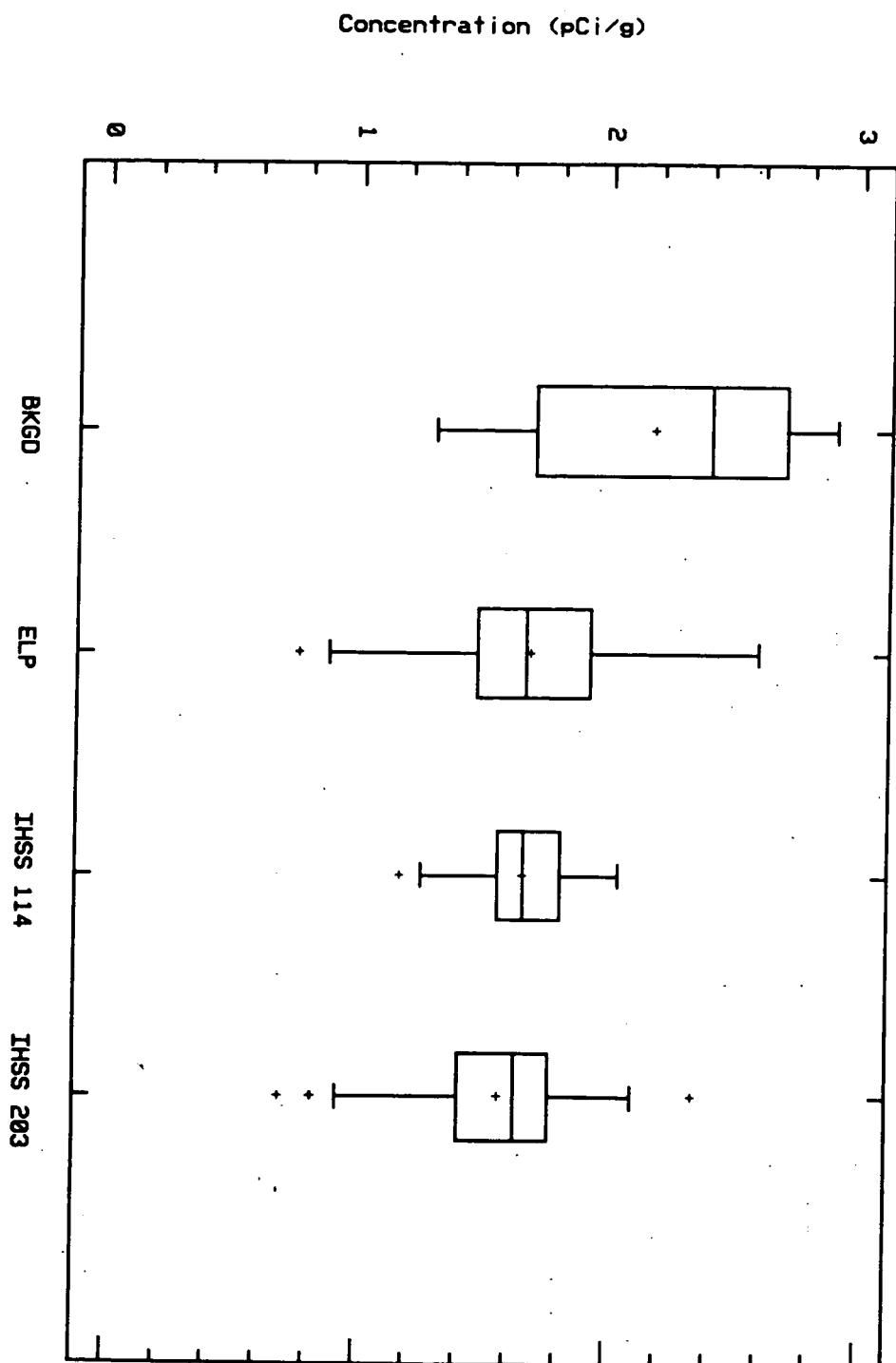
Pyrene
Surface Soils: 0-2 (inches)



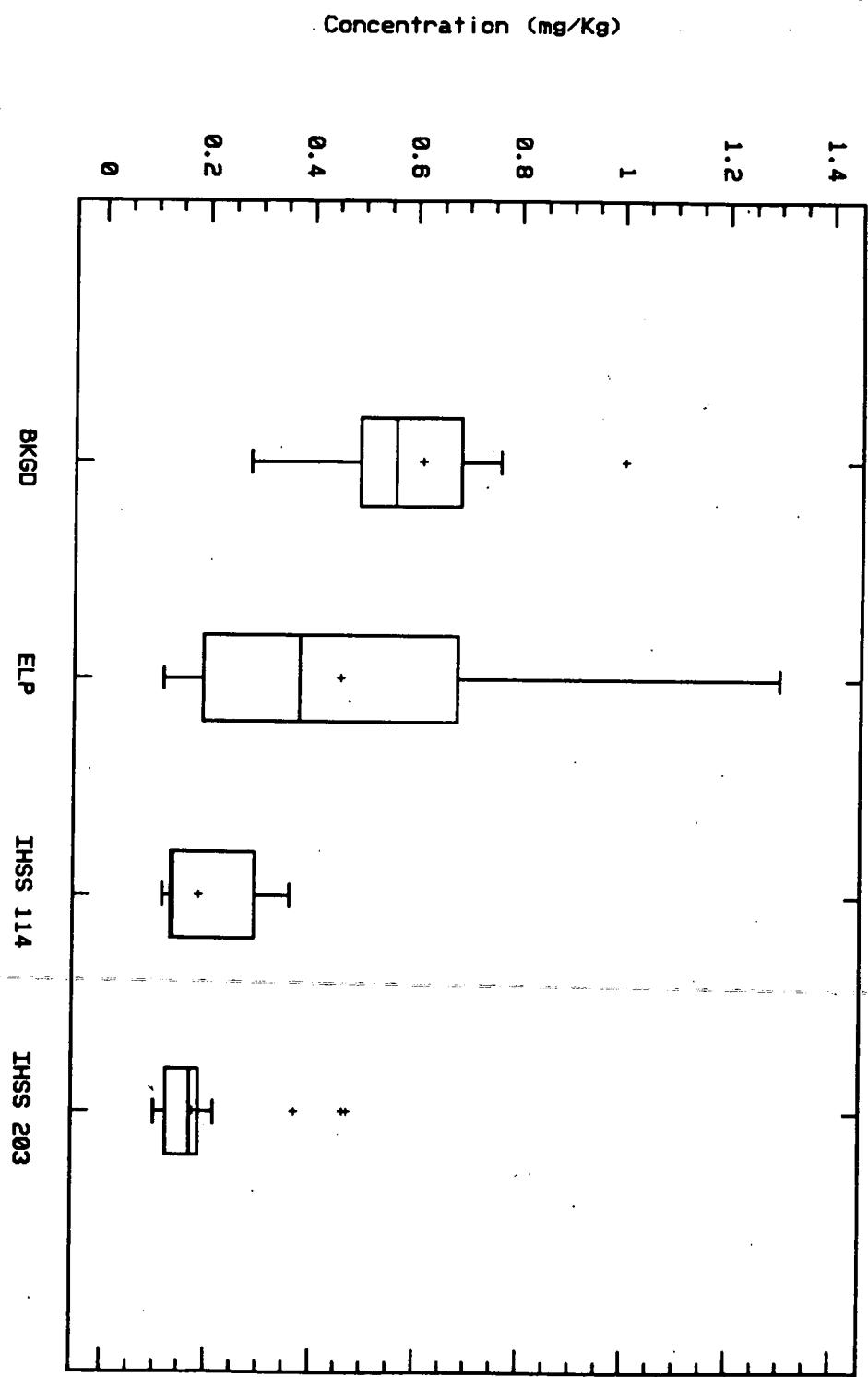
Radium-226
Surface Soils: 0-2 (inches)



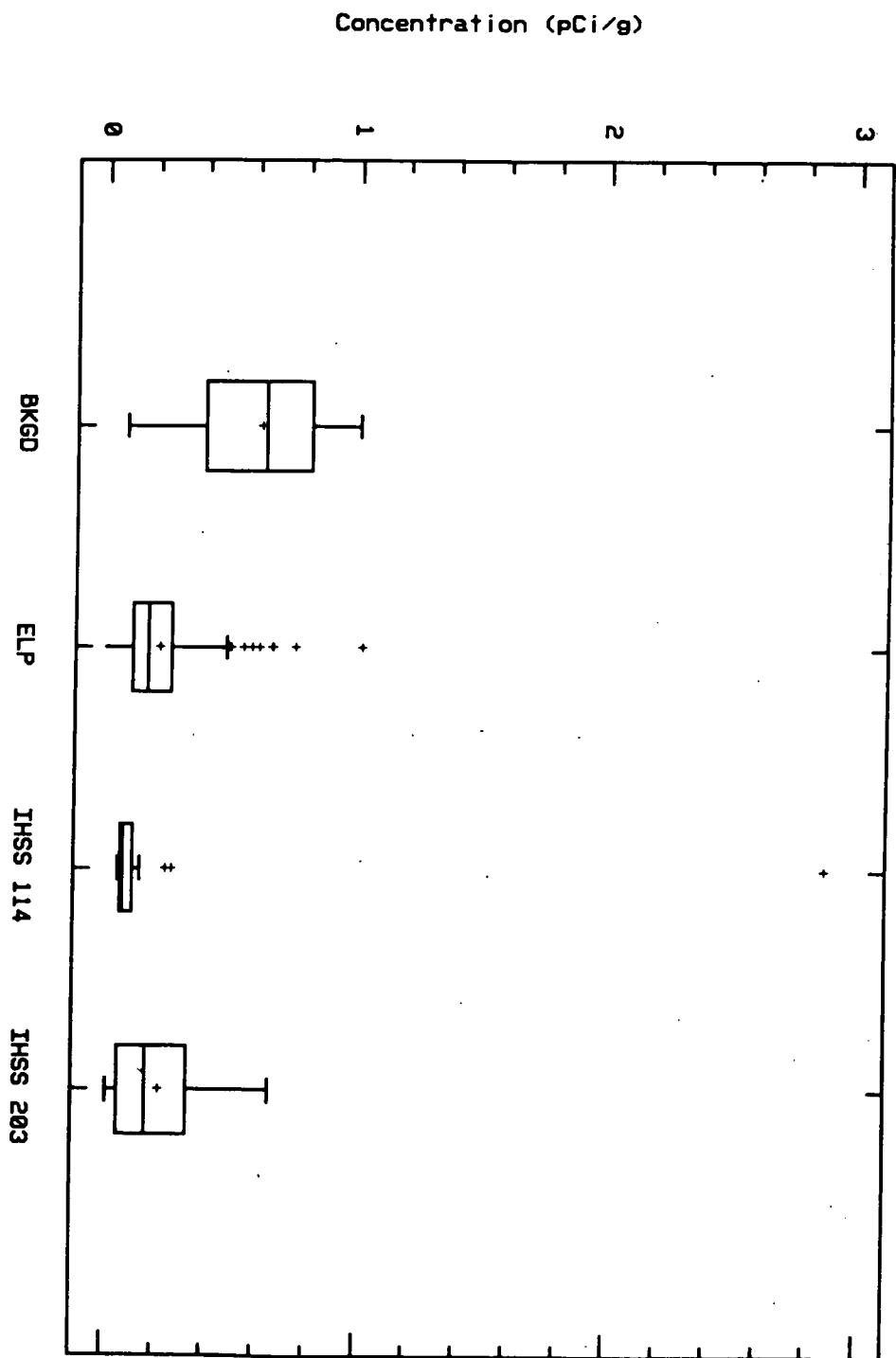
Radium-228
Surface Soils: 0-2 (inches)



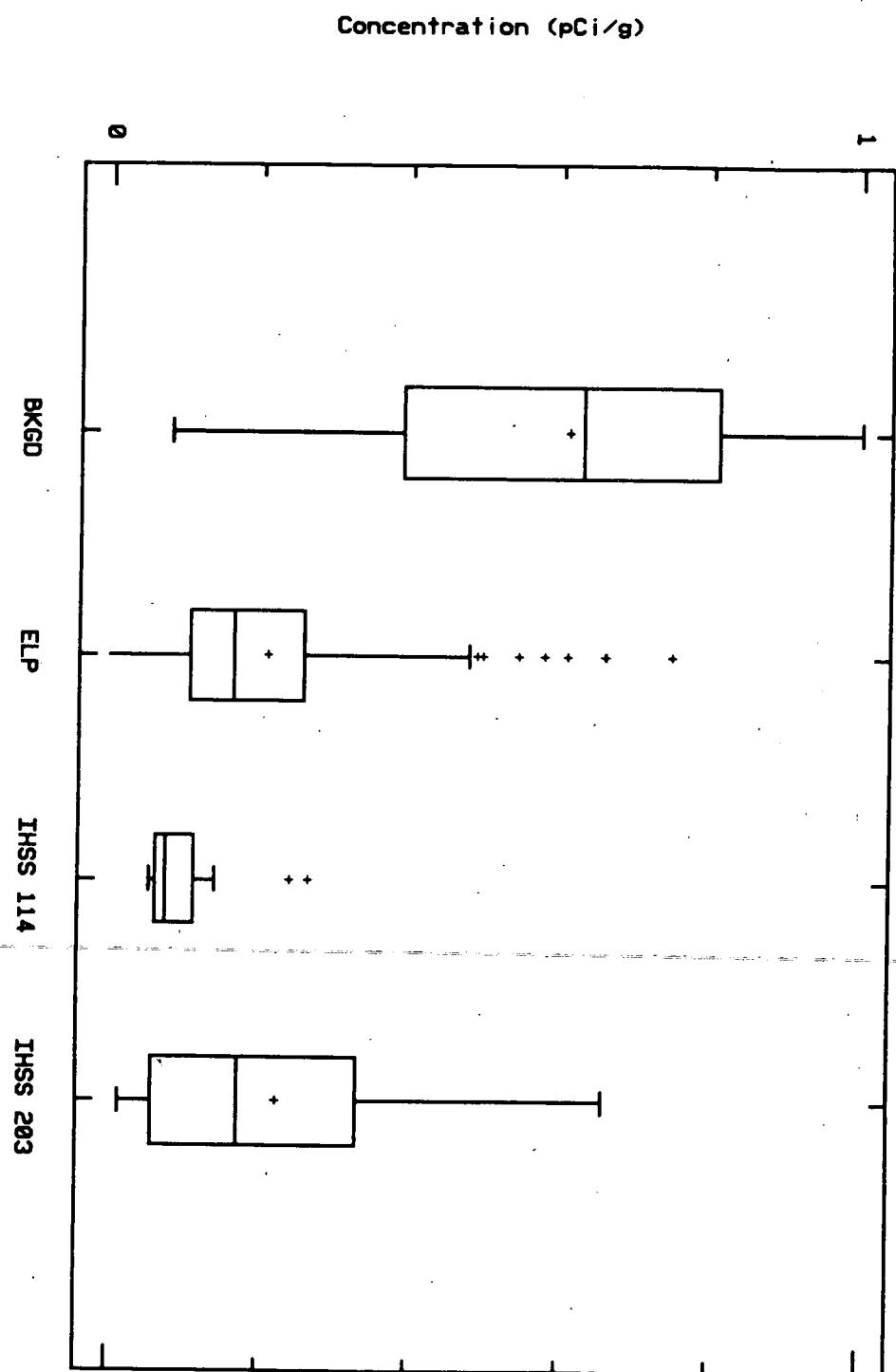
Selenium
Surface Soils: 0-2 (inches)



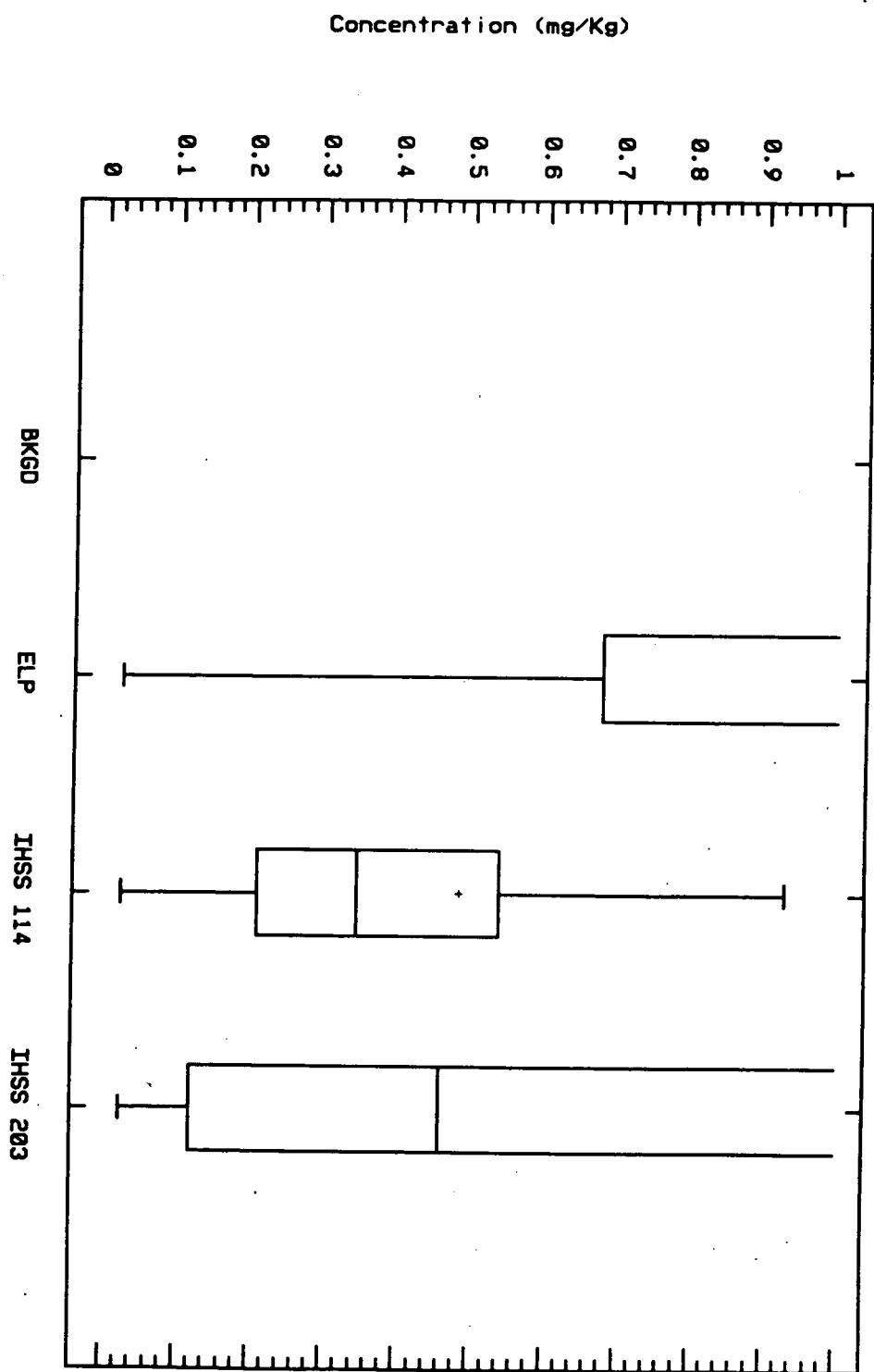
Strontium-89, 90
Surface Soils: 0-2 (inches)



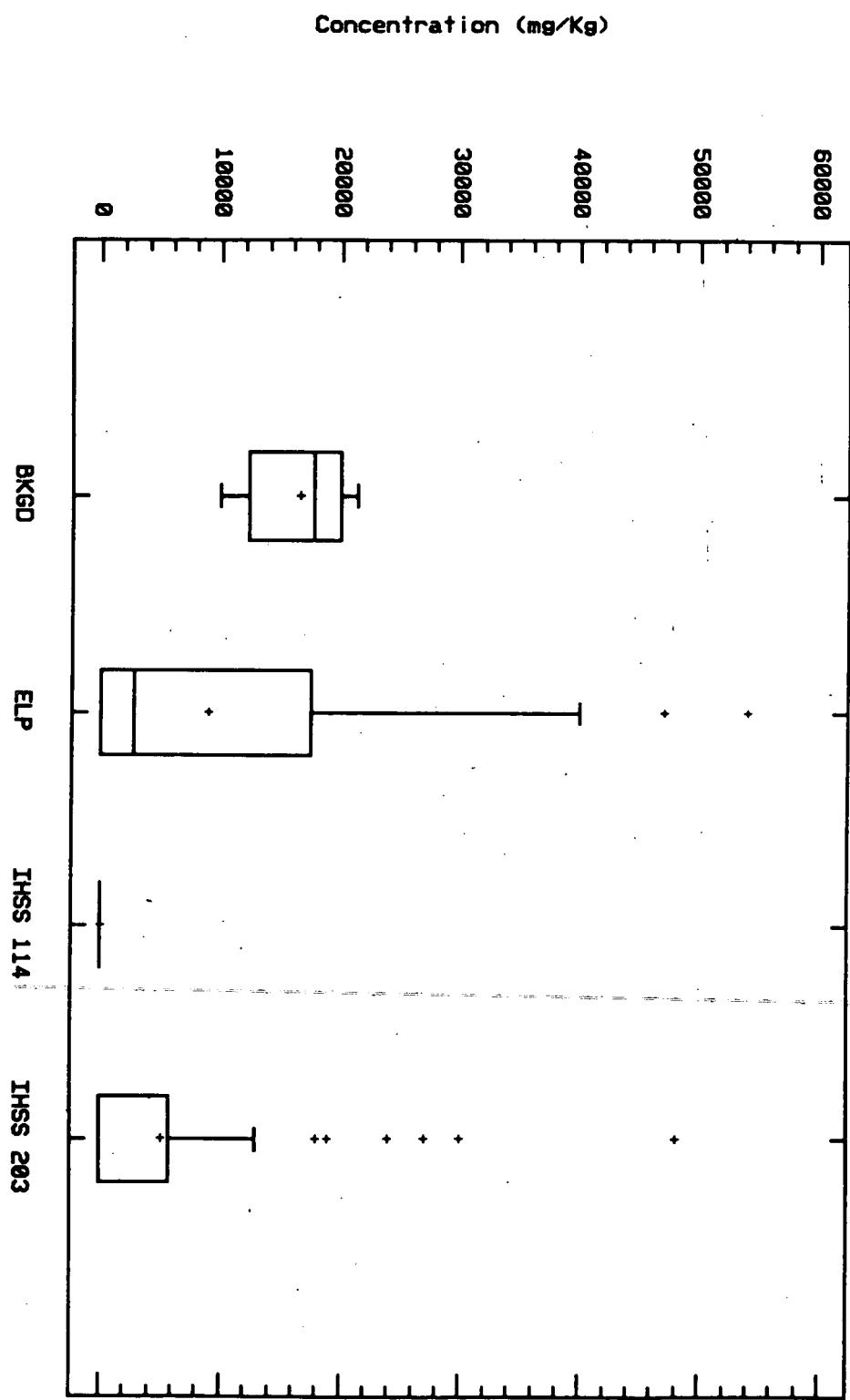
Strontium-89,90
Surface Soils: 0-2 (inches)



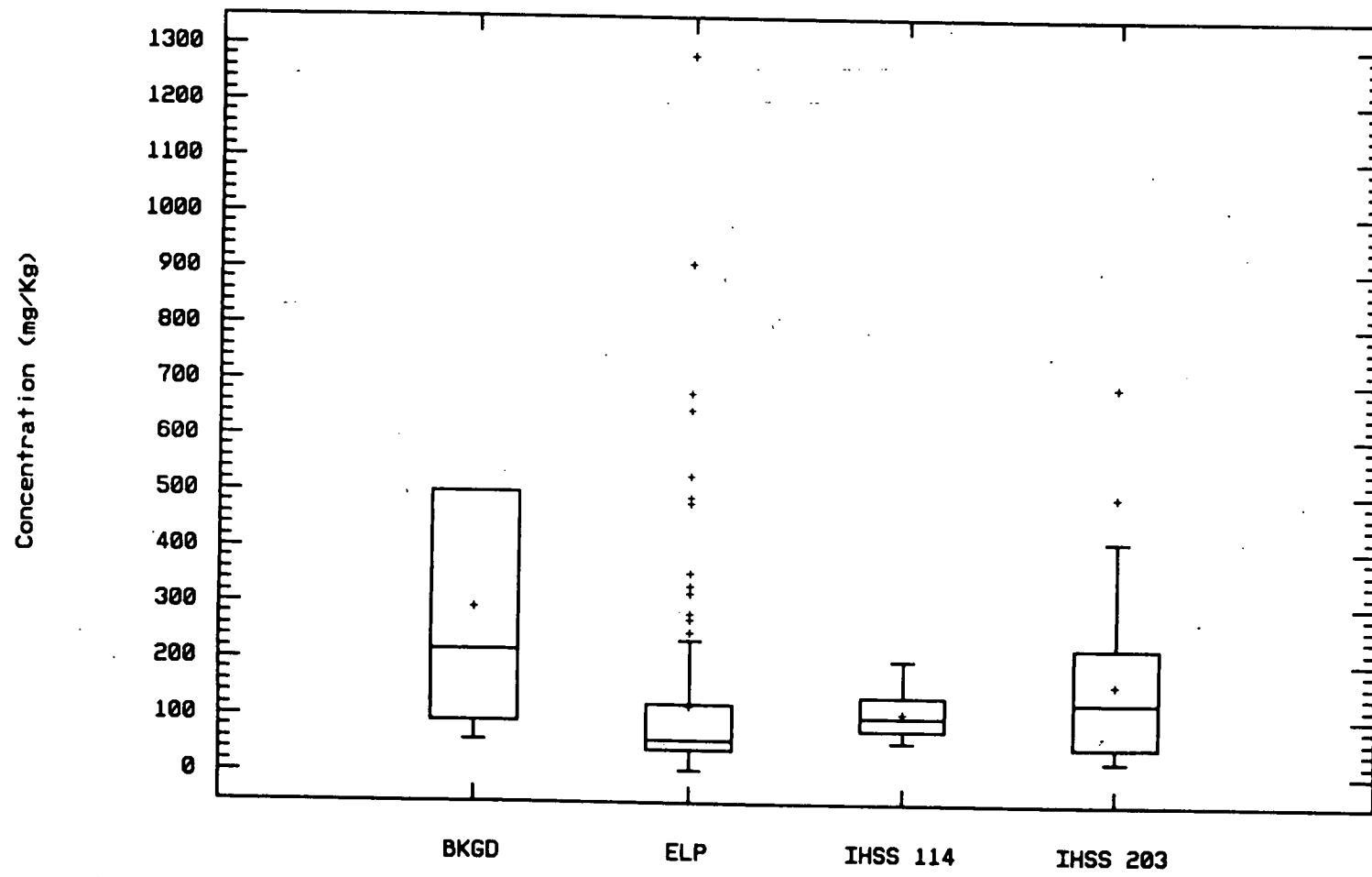
Total Organic Carbon
Surface Soils: 0-2 (inches)



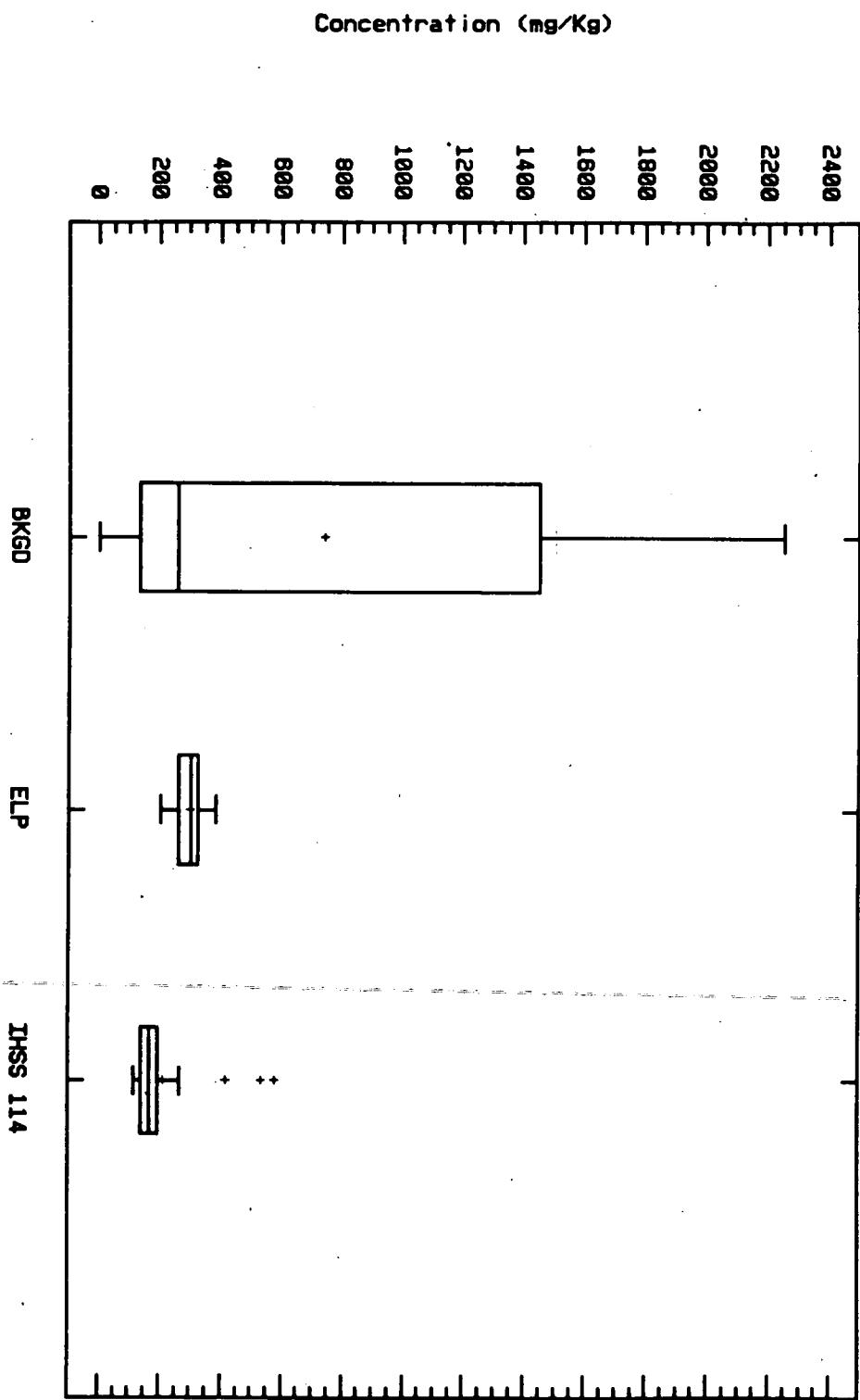
Total Organic Carbon
Surface Soils: 0-2 (inches)



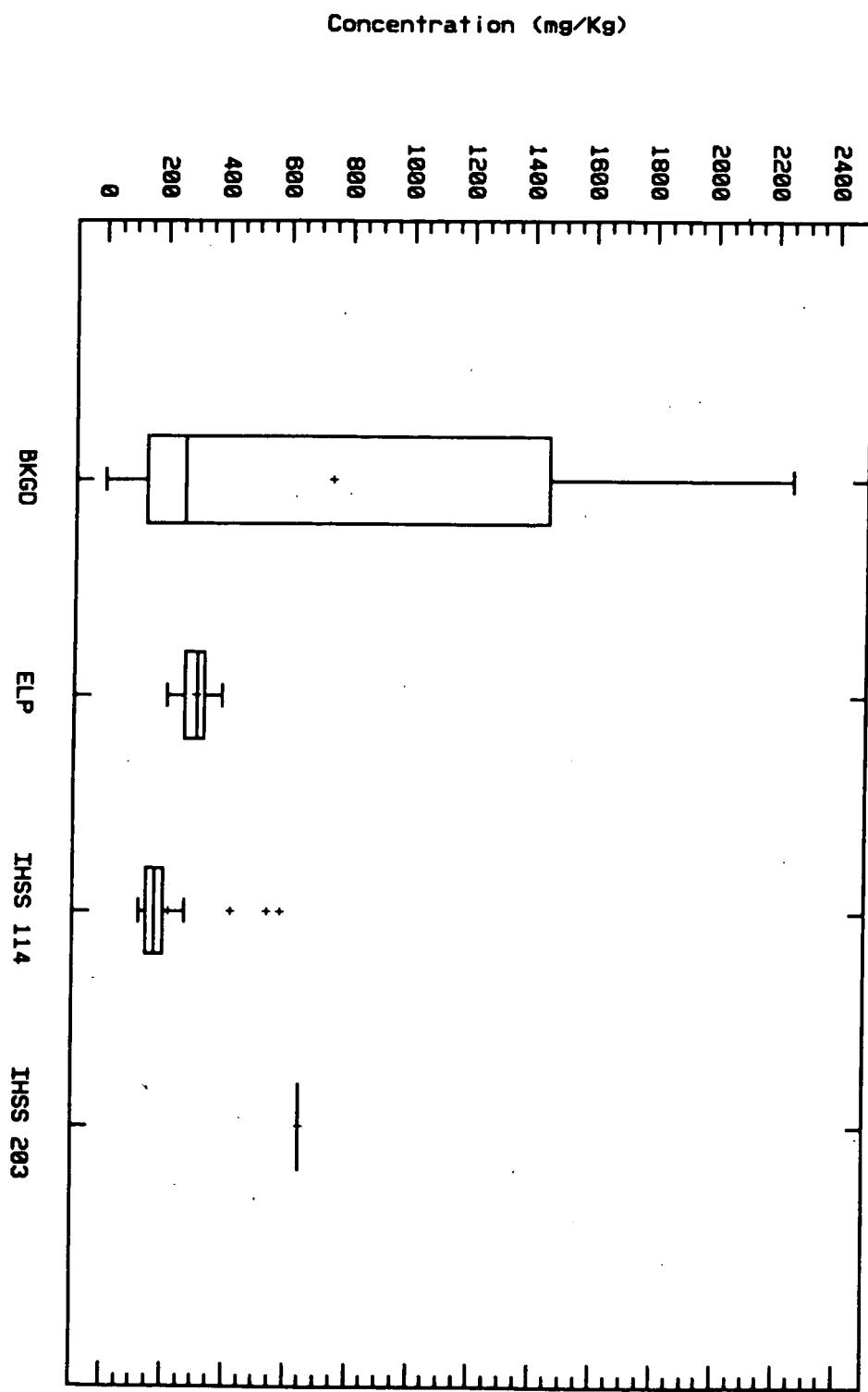
Sodium
Surface Soils: 0-2 (inches)



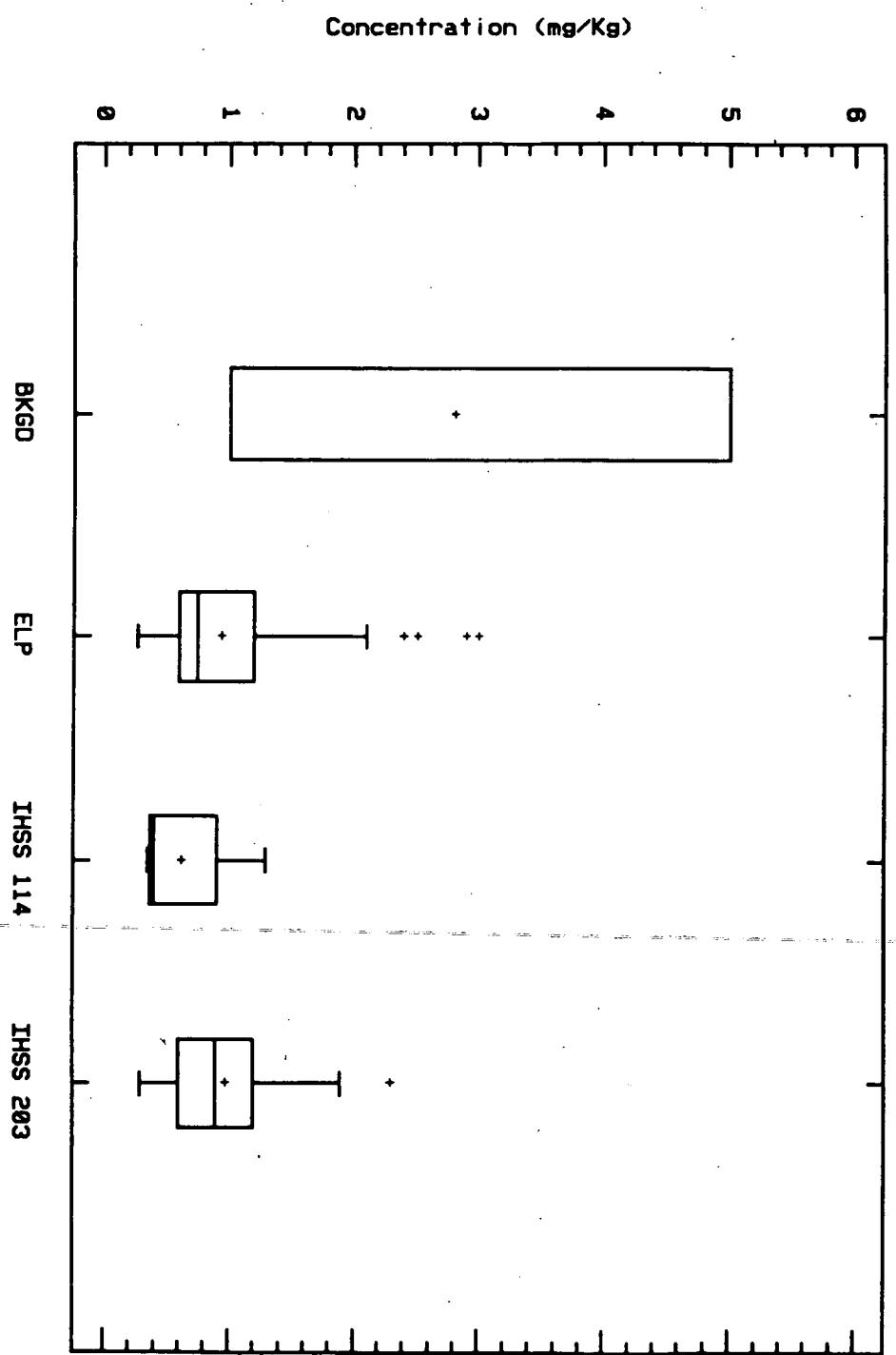
Silicon
Surface Soils: 0-2 (inches)



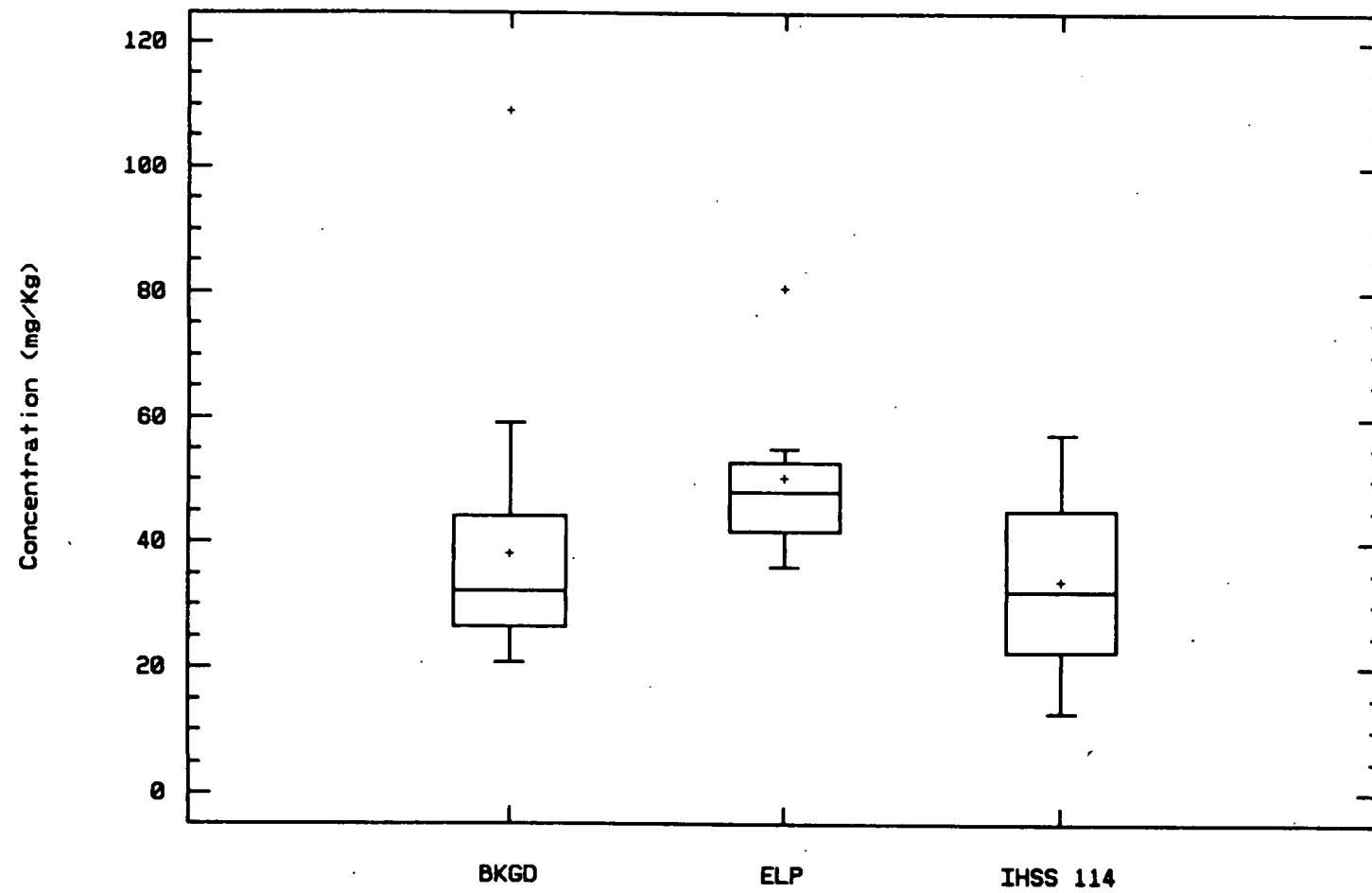
Silicon
Surface Soils: 0-2 (inches)



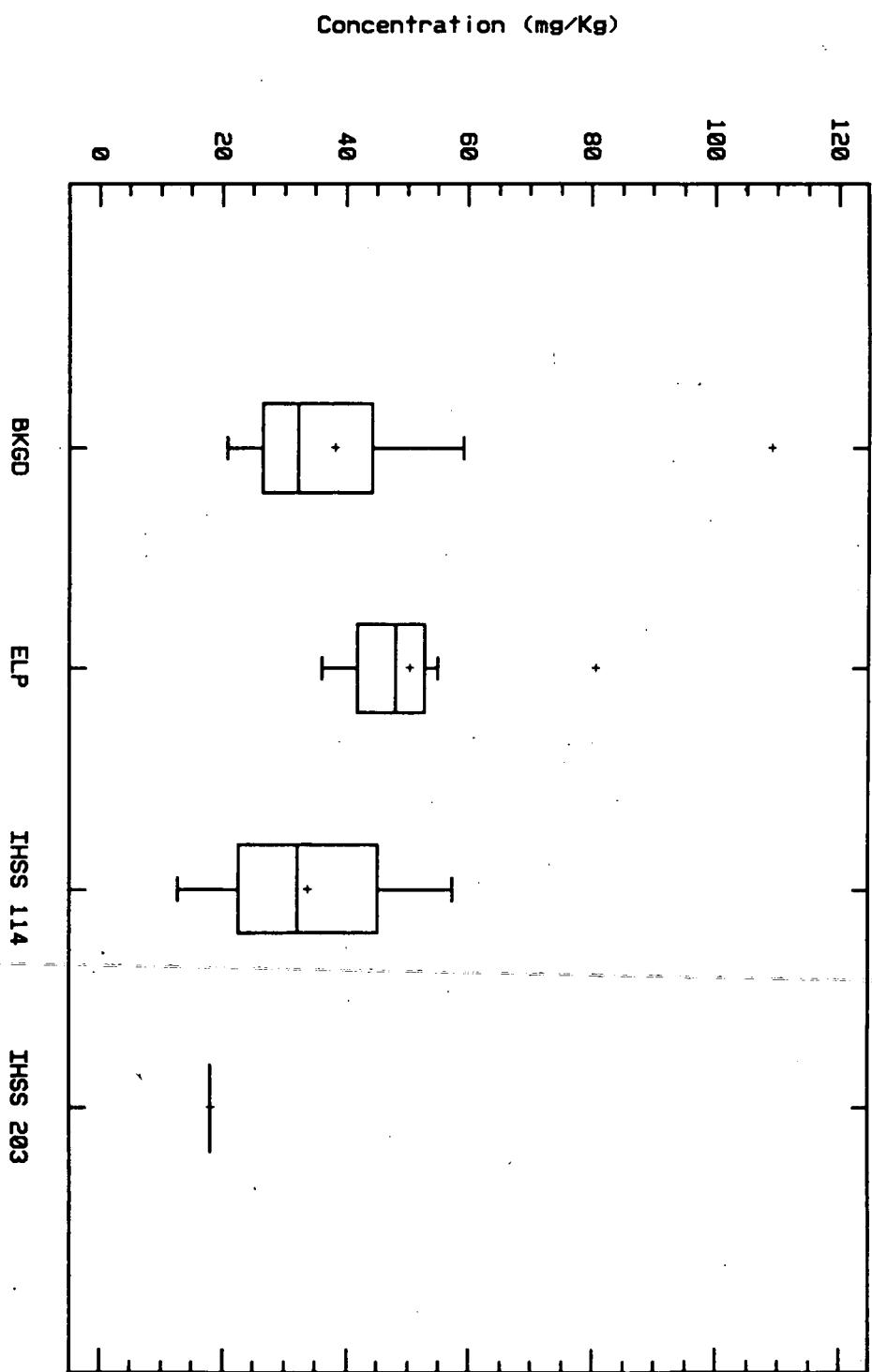
Silver
Surface Soils: 0-2 (inches)



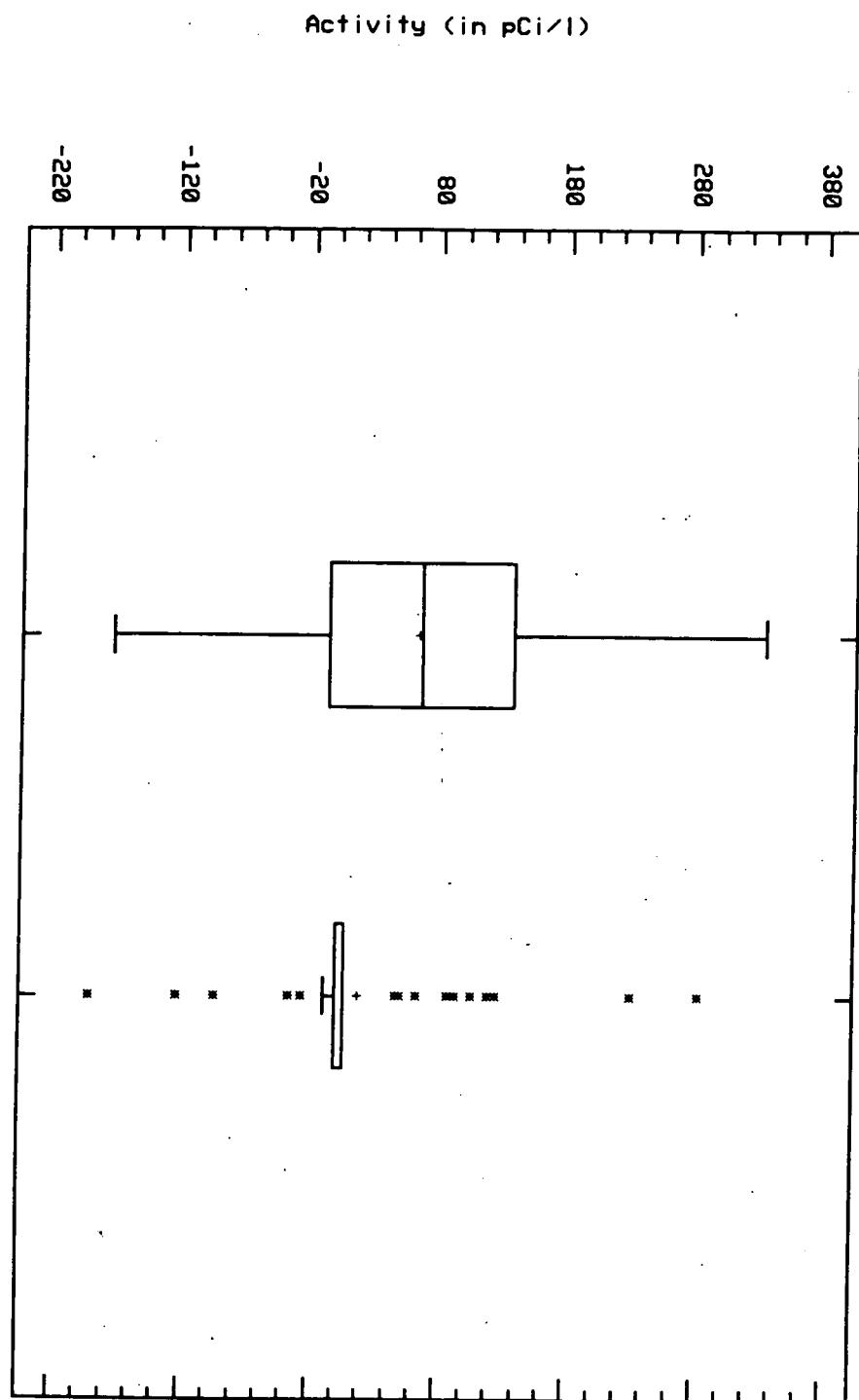
Strontium
Surface Soils: 0-2 (inches)



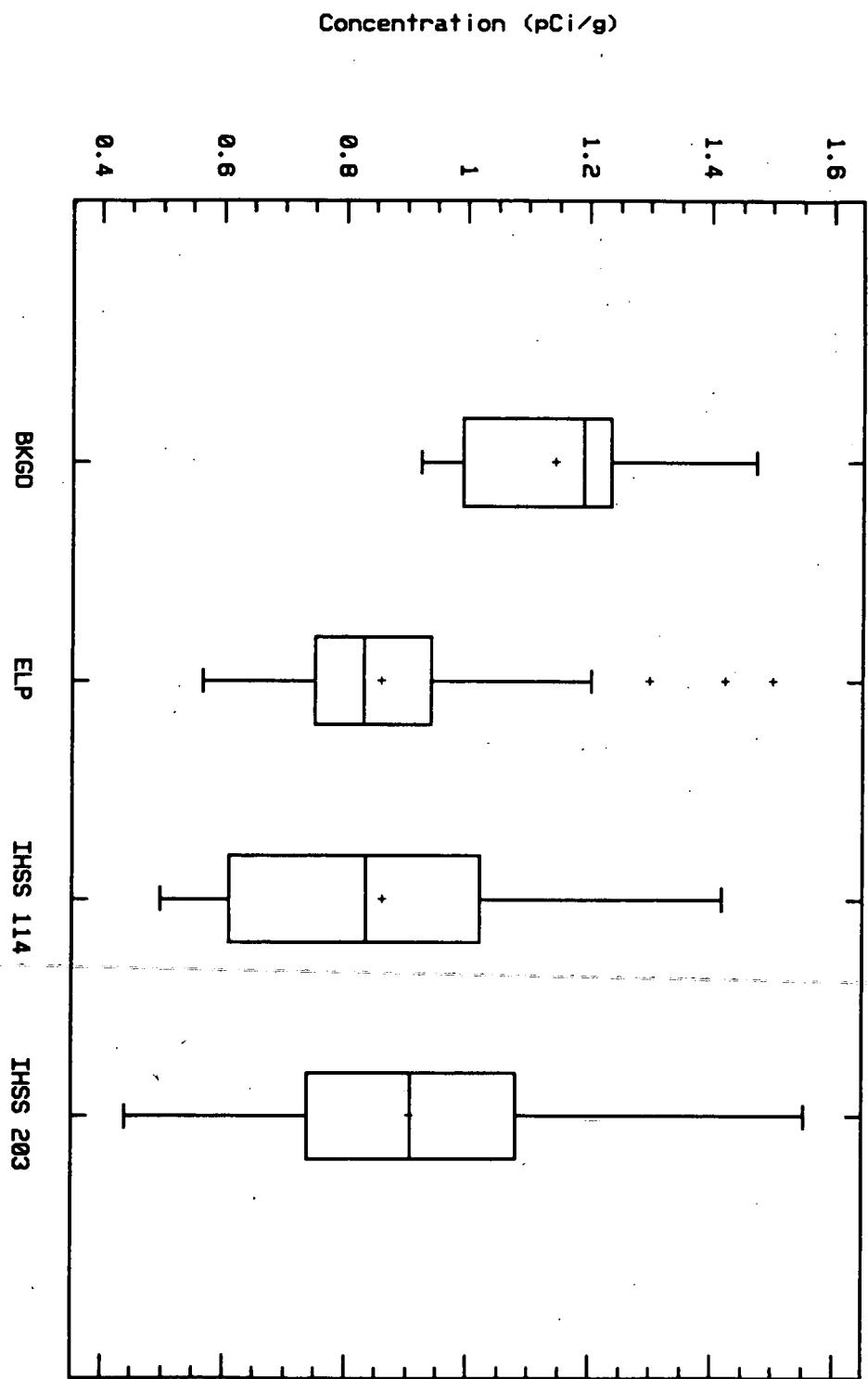
Strontium
Surface Soils: 0-2 (inches)



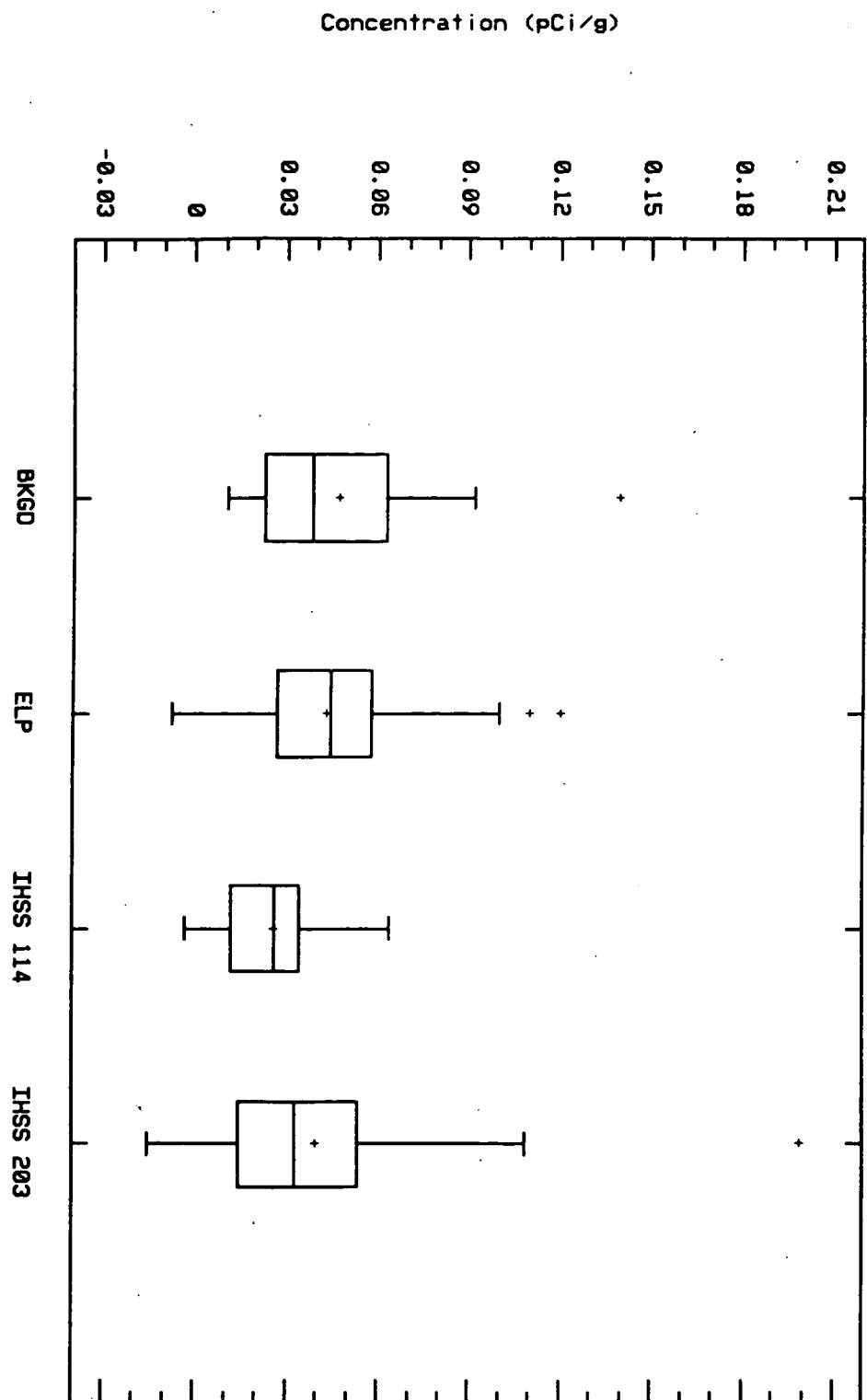
Tritium
Surface Soils: 0-2 (inches)



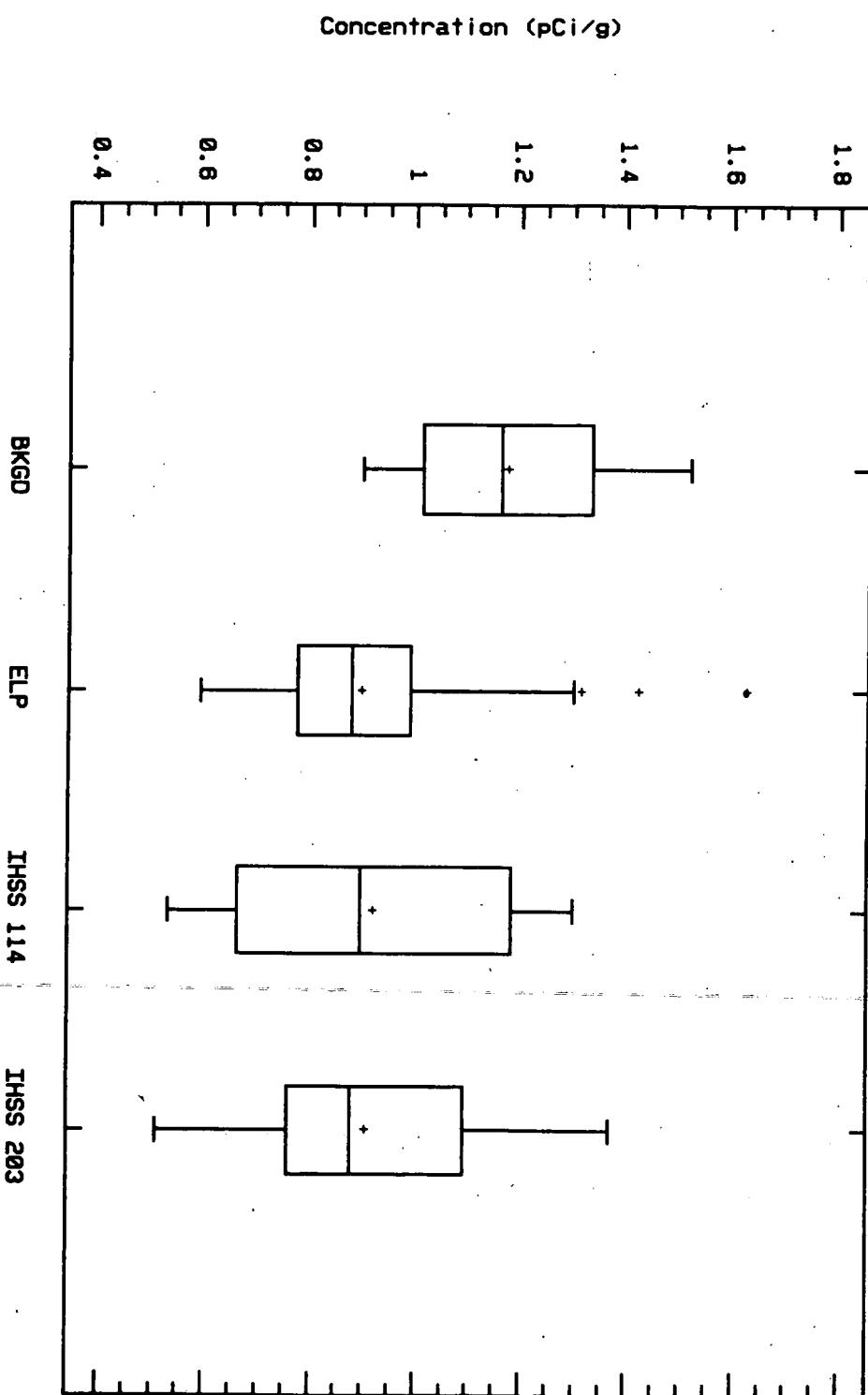
Uranium-2333, -234
Surface Soils: 0-2 (inches)



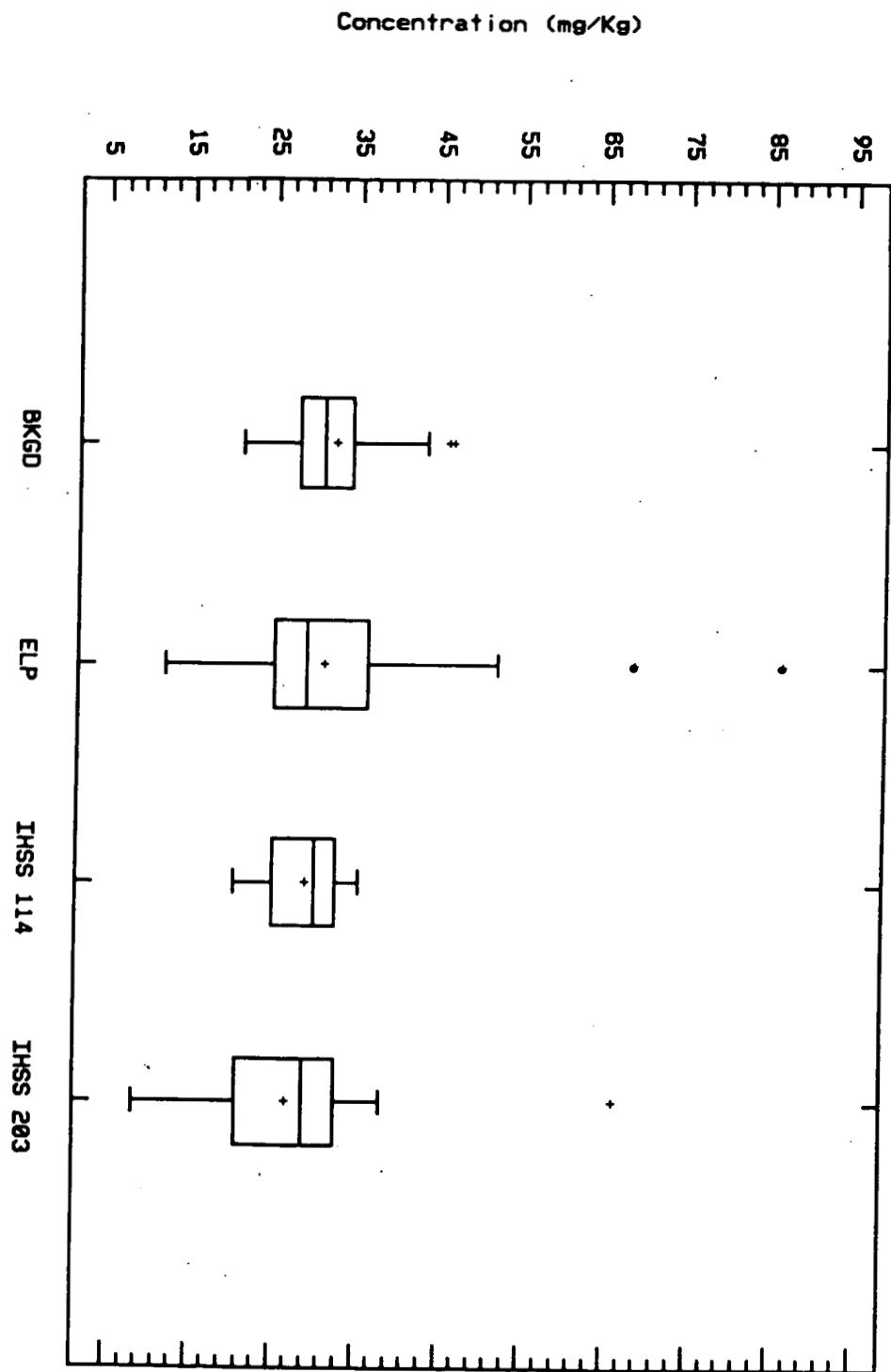
Uranium-235
Surface Soils: 0-2 (inches)



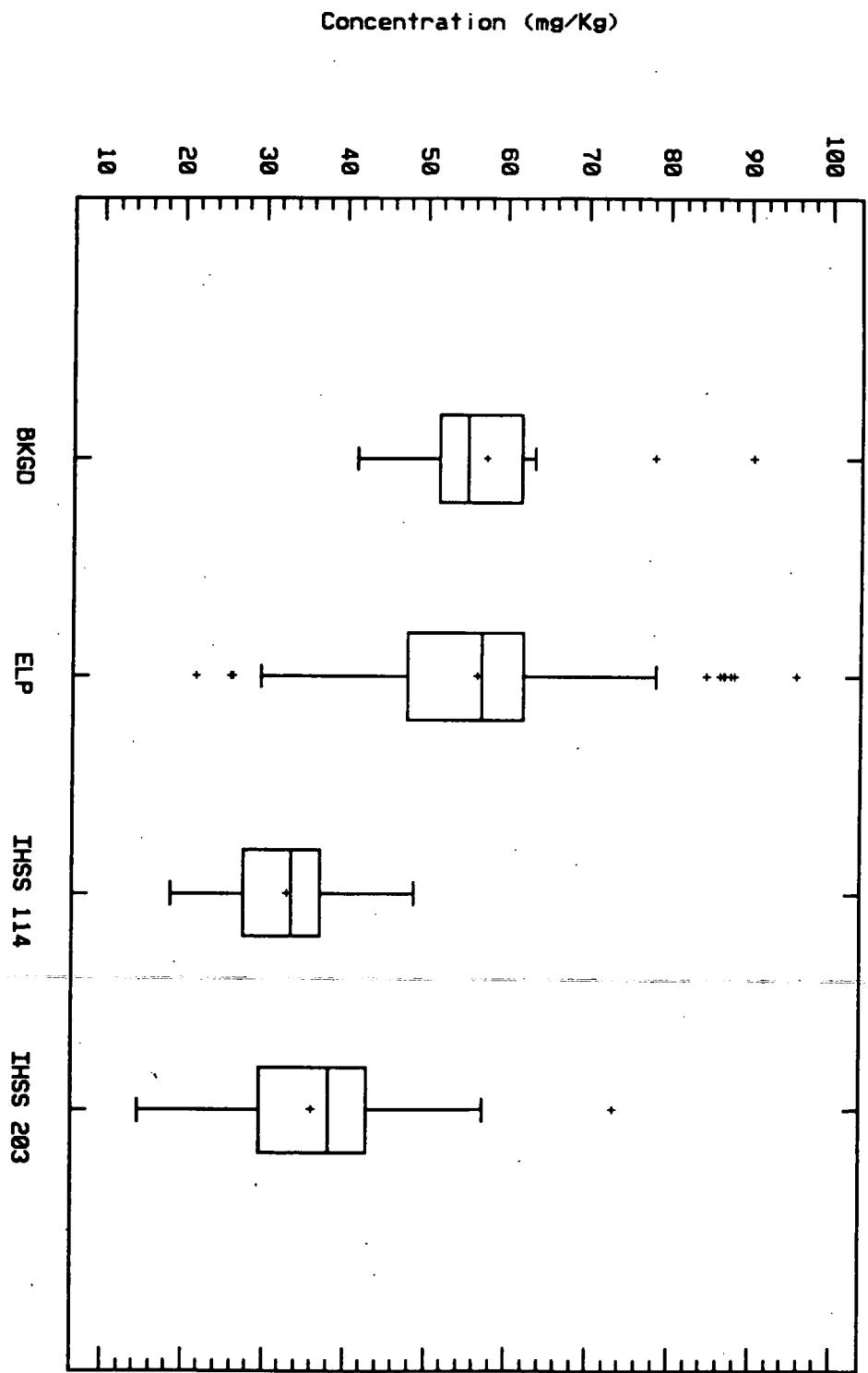
Uranium-238
Surface Soils: 0-2 (inches)



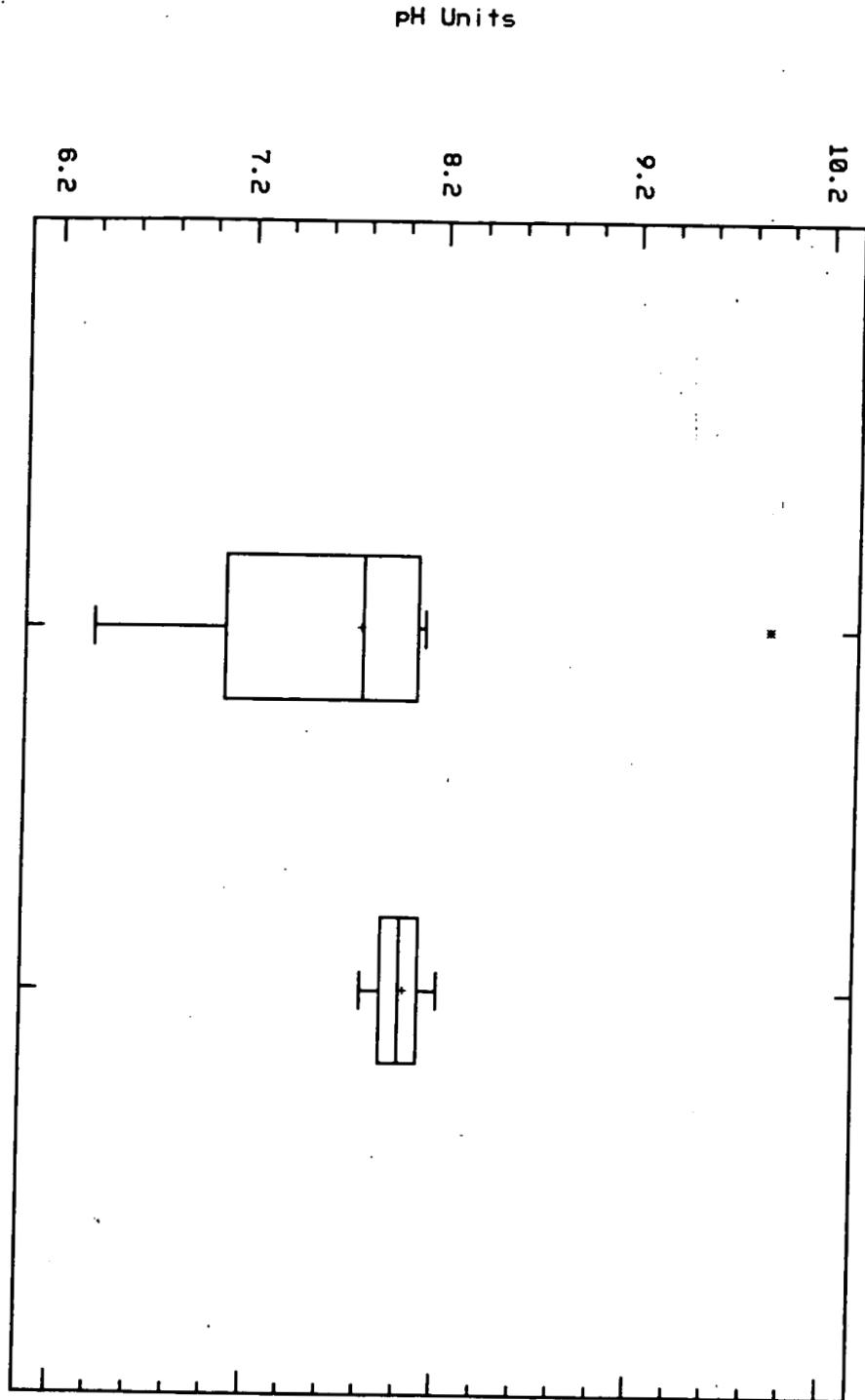
Vanadium
Surface Soils: 0-2 (inches)



Zinc
Surface Soils: 0-2 (inches)



pH
Surface Soils: 0-2 (inches)



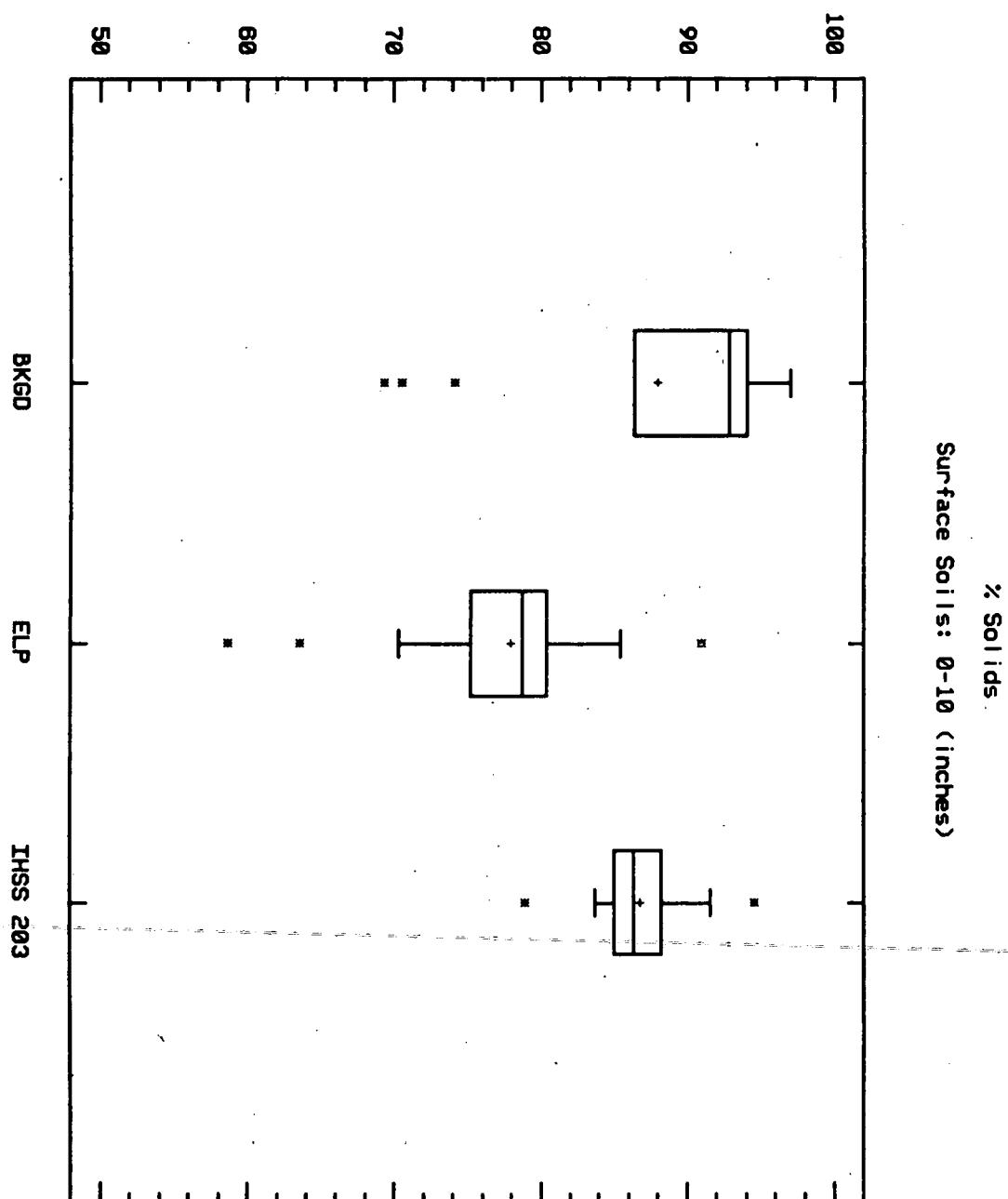
BKGD

IHSS 114

Surface Soils

(0 to 10 inches)

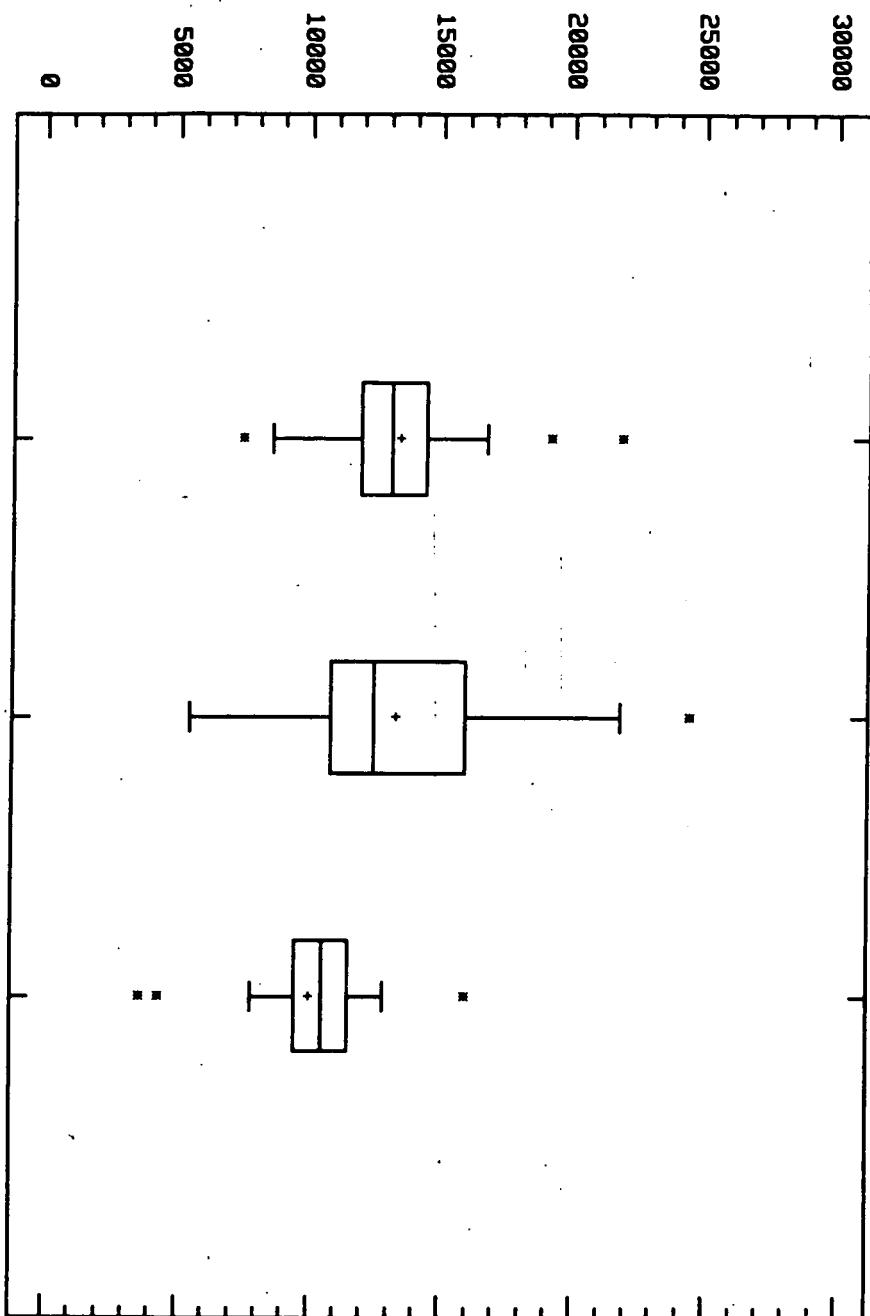
Percent Solids



Concentration (in mg/Kg)

Aluminum

Surface Soils: 0-10 (inches)



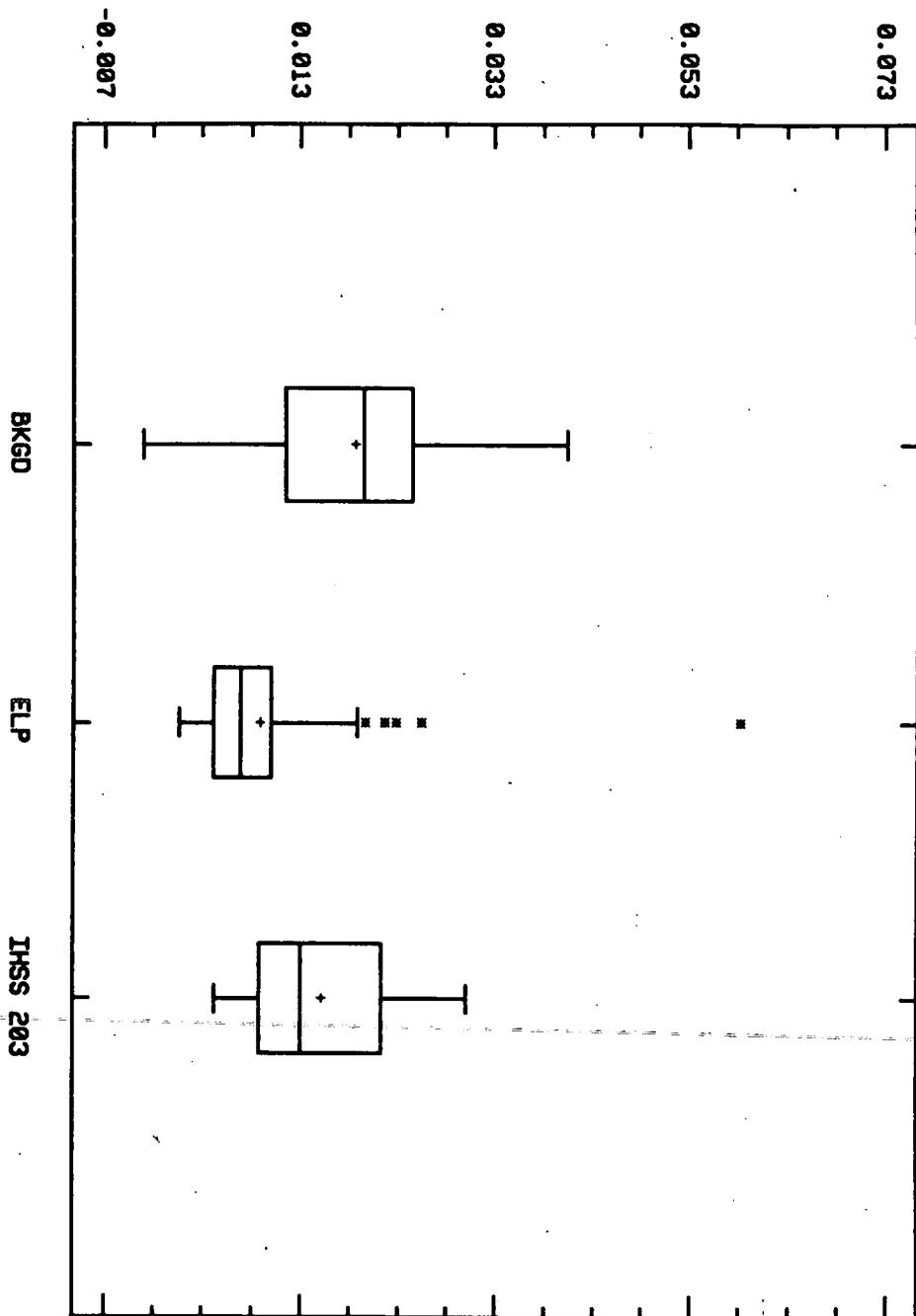
BKGD

ELP

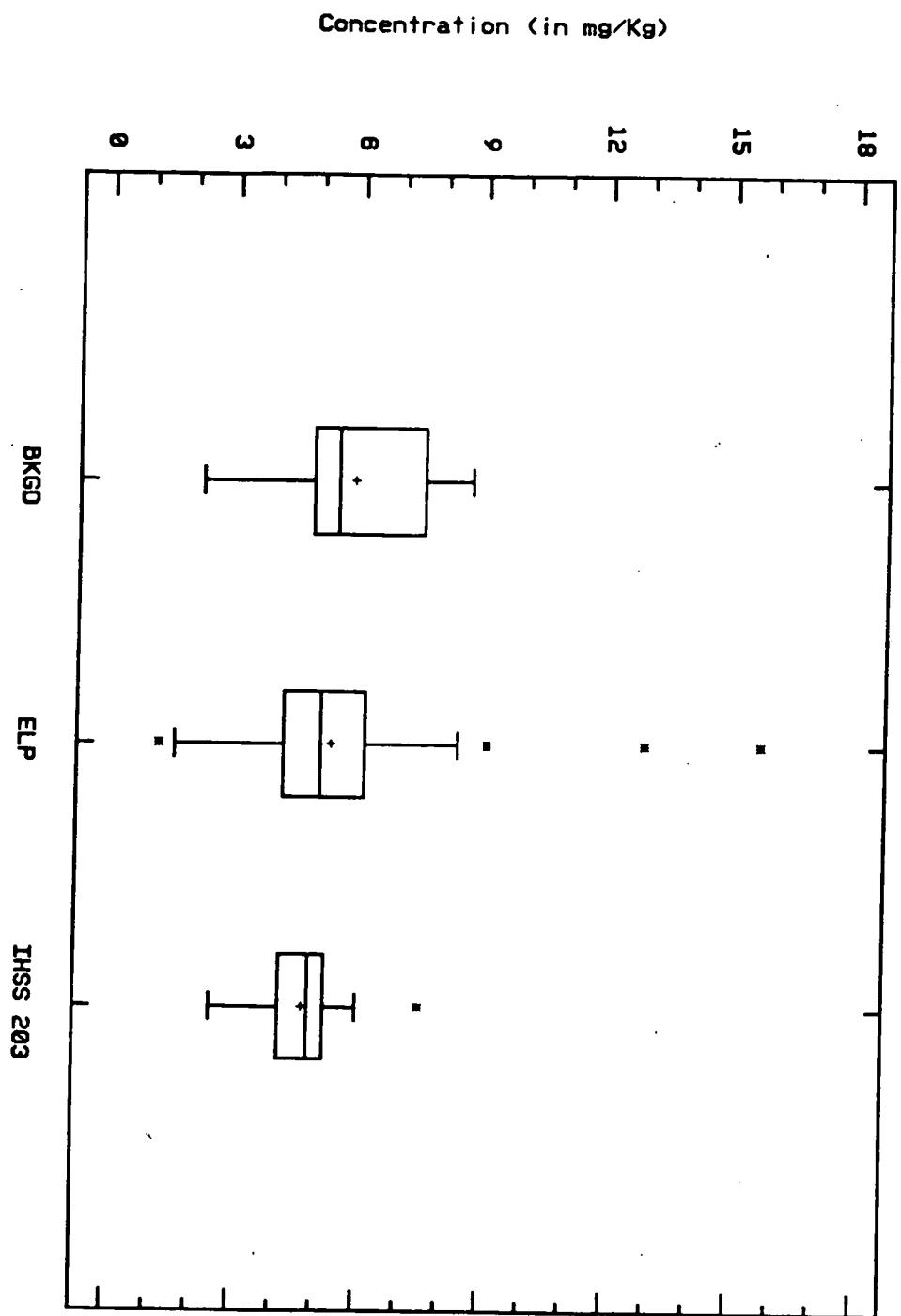
IHSS 203

Activity (in pCi/g)

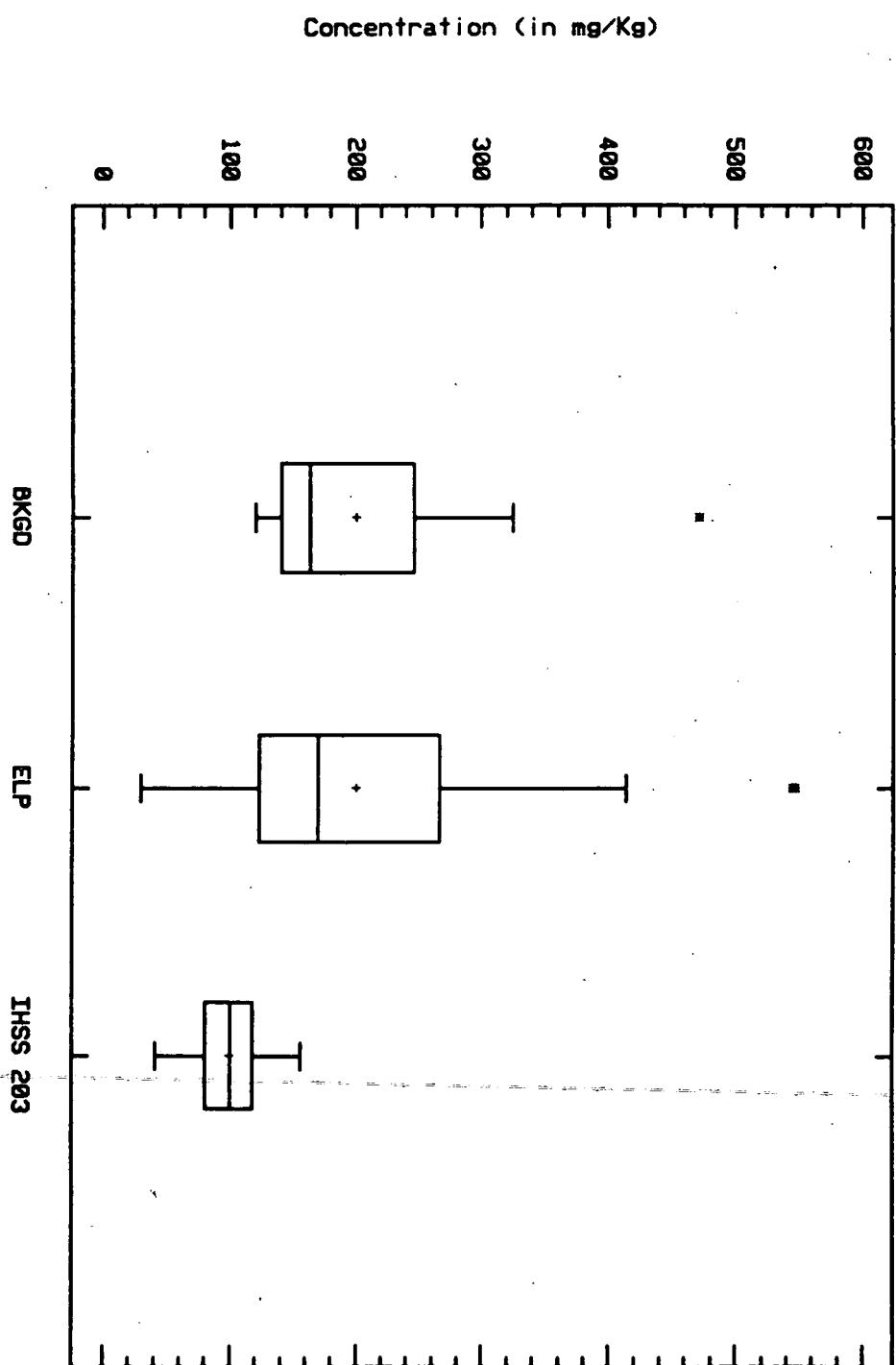
Am-241
Surface Soils: 0-10 (inches)



Arsenic
Surface Soils: 0-10 (inches)



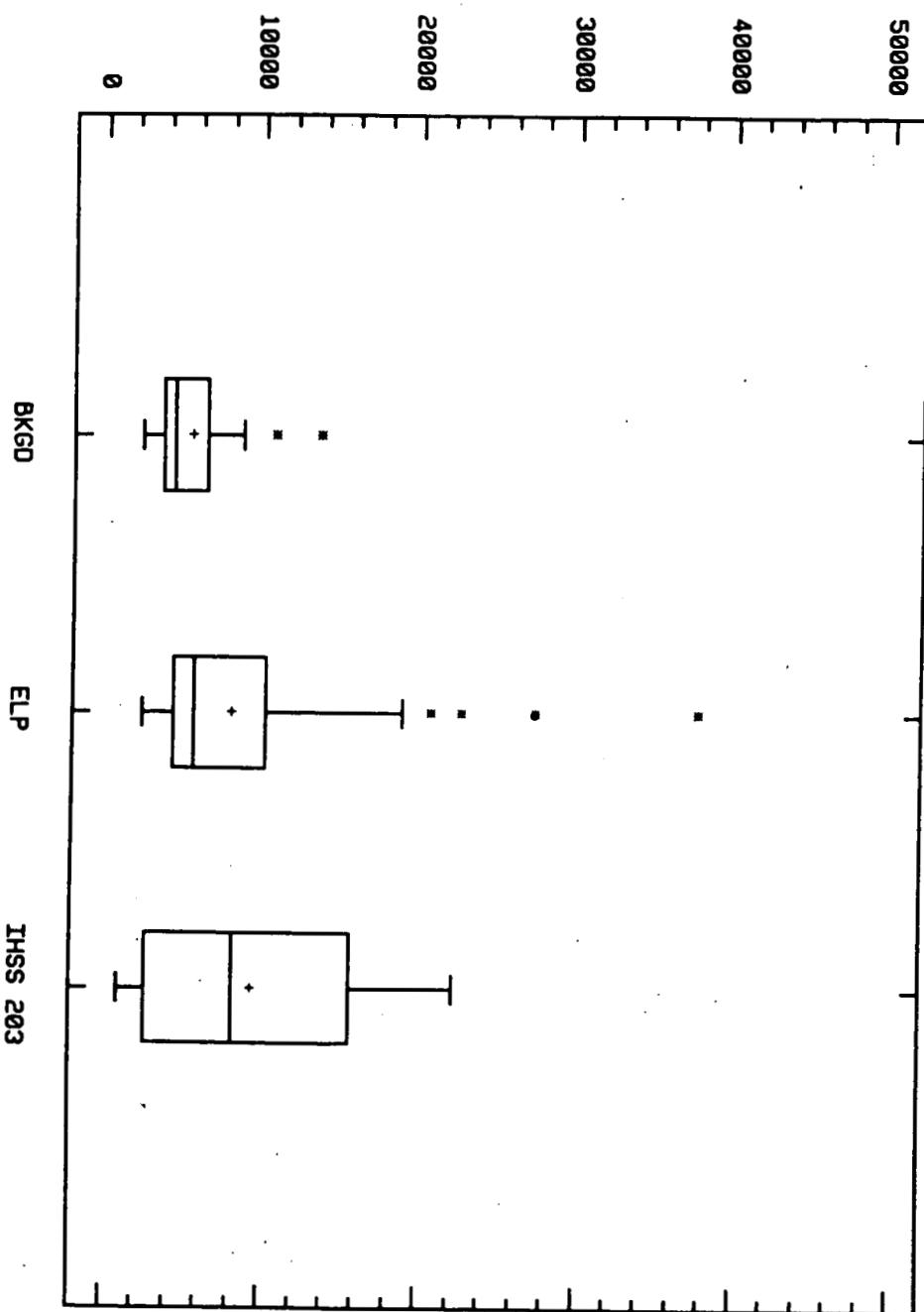
Barium
Surface Soils: 0-10 (inches)



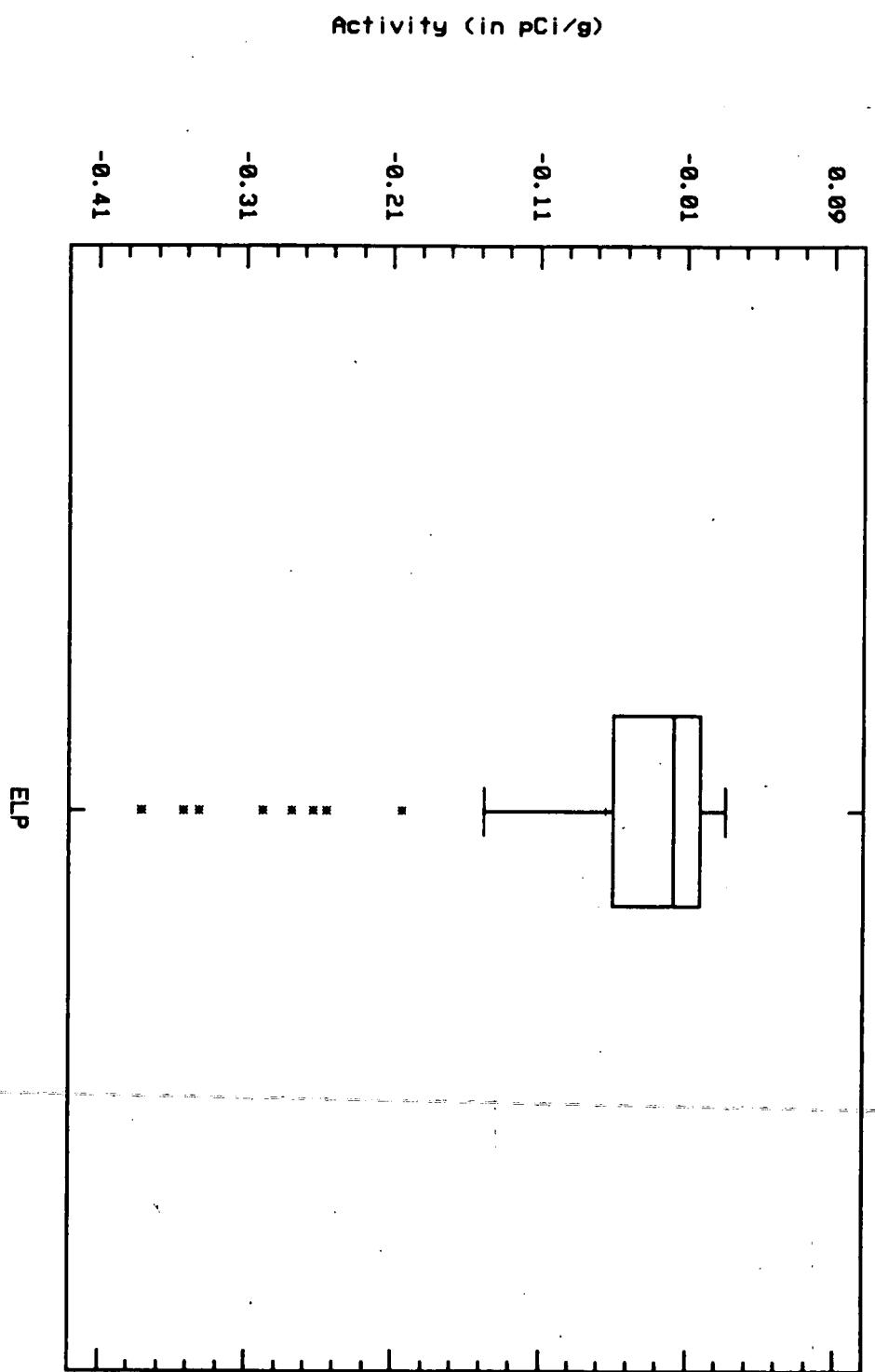
Concentration (in mg/Kg)

Surface Soils: 0-10 (inches)

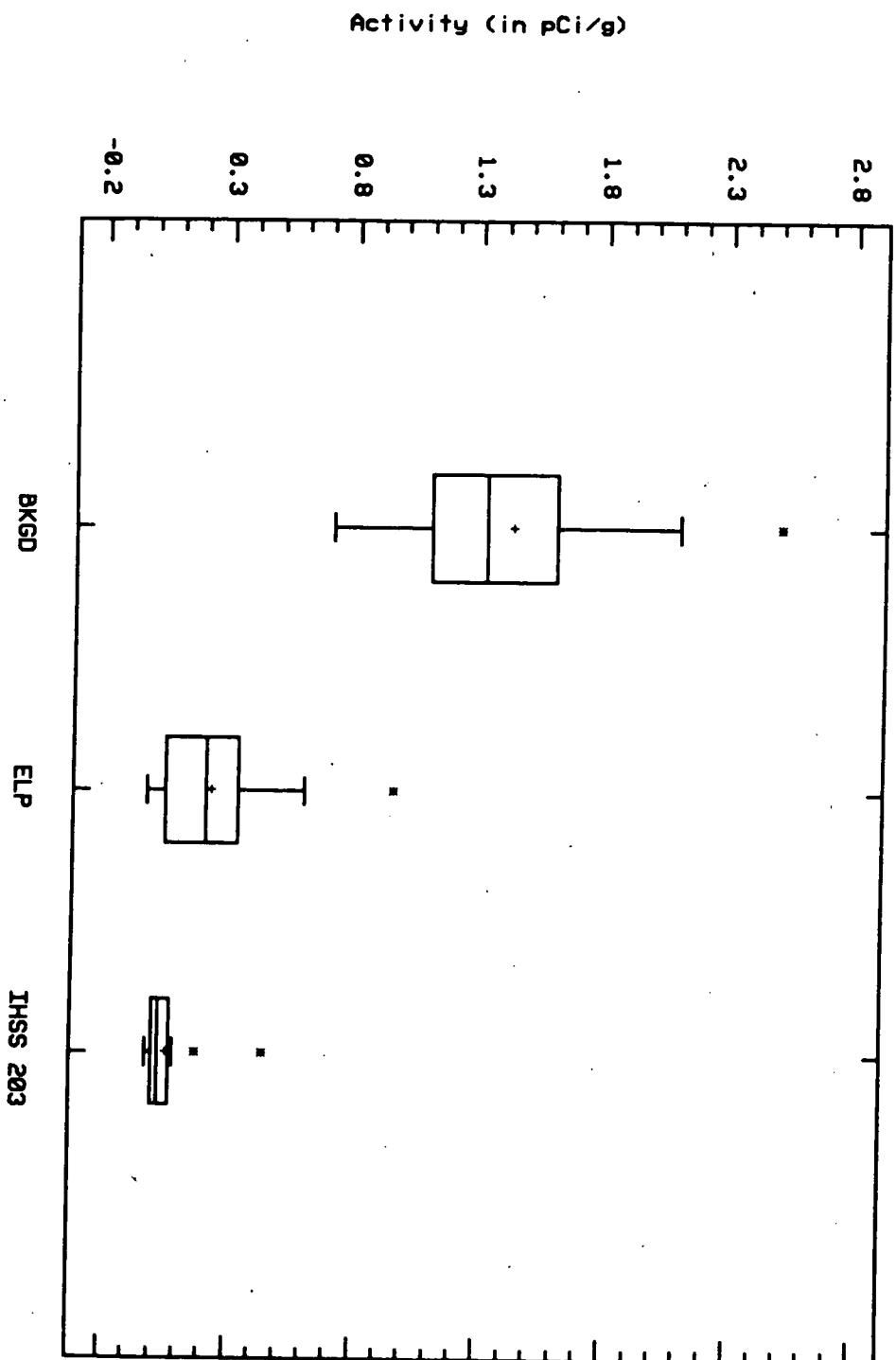
Calcium



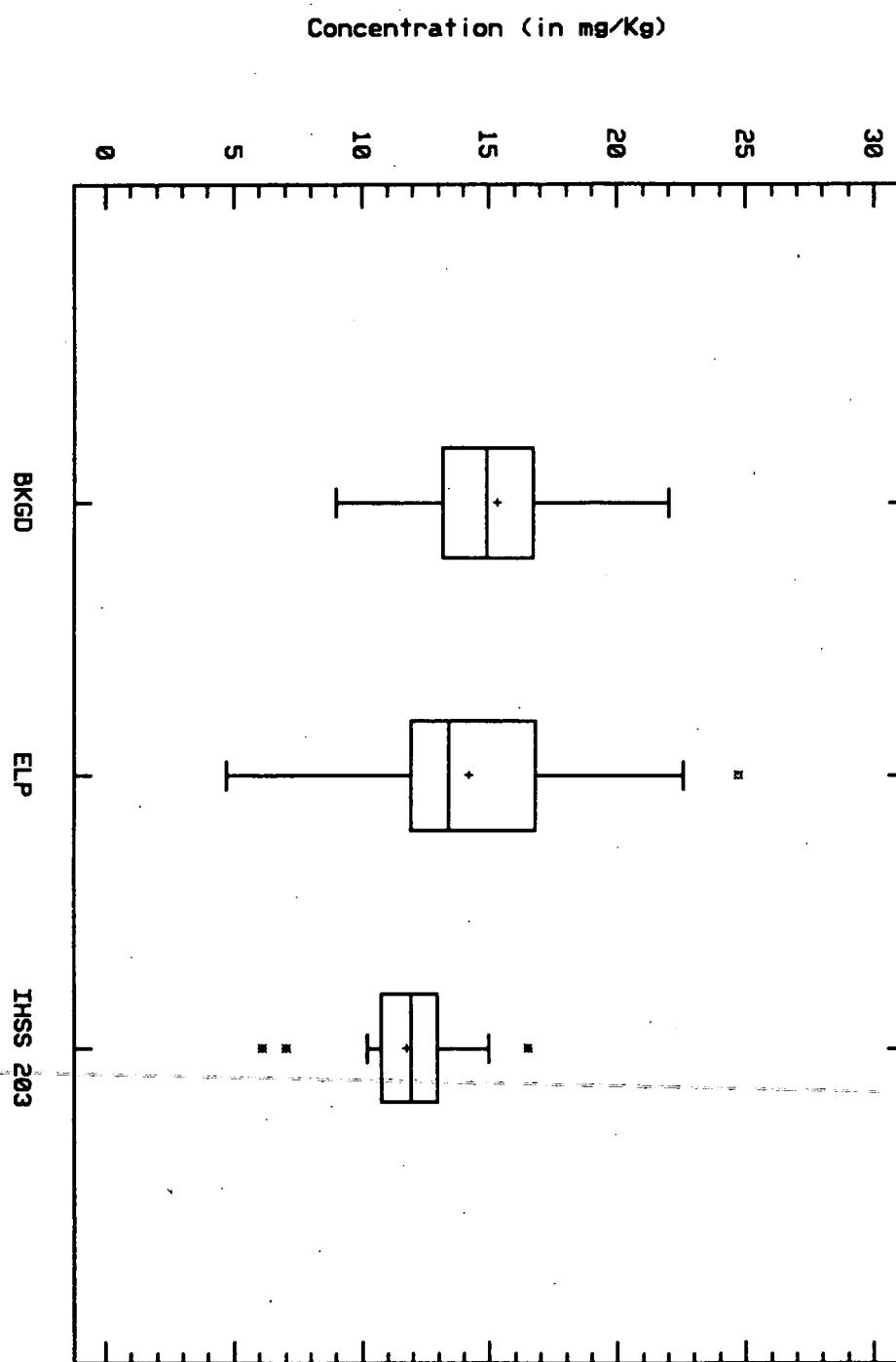
Cesium-134
Surface Soils: 0-10 (inches)



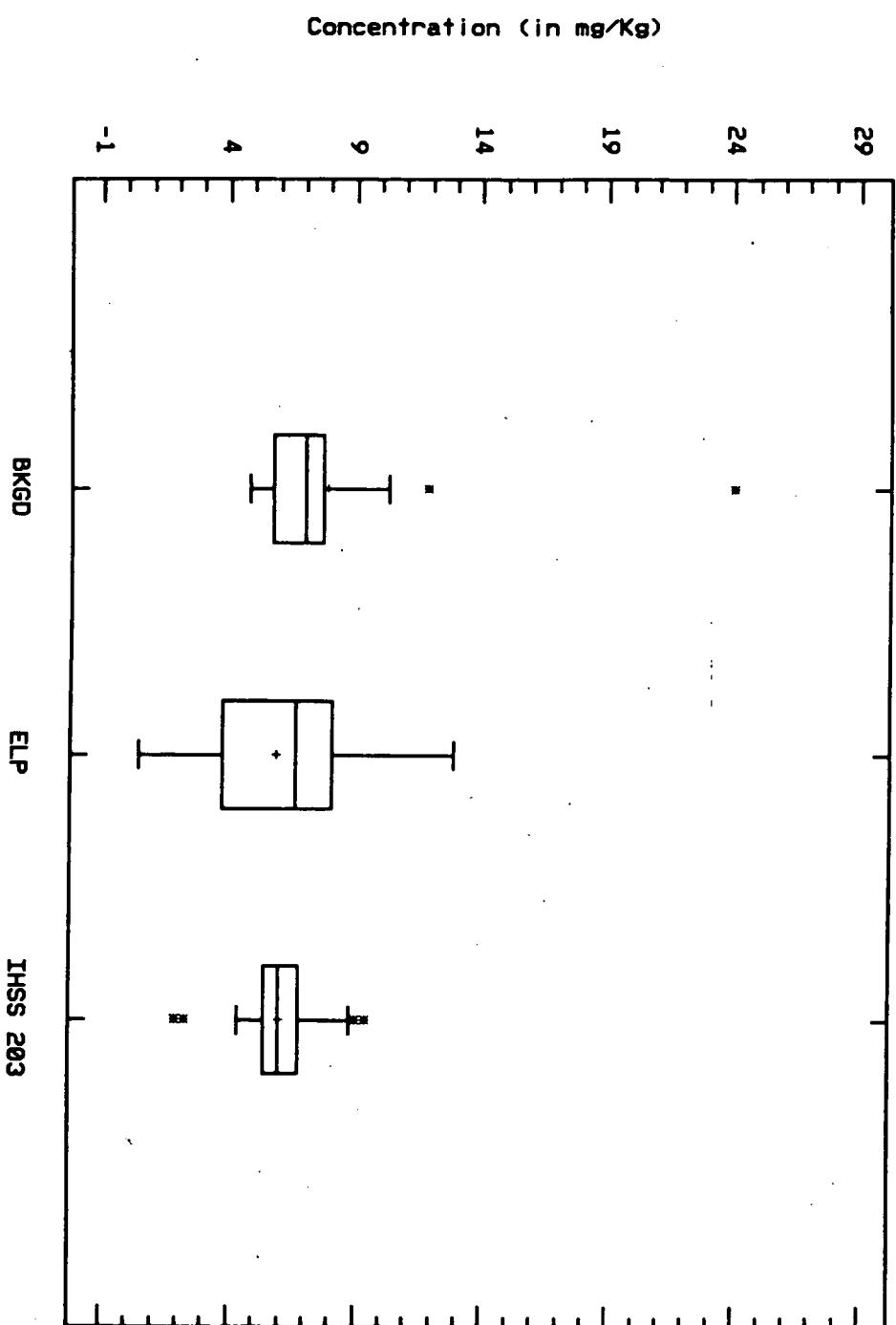
Cesium-137
Surface Soils: 0-10 (inches)



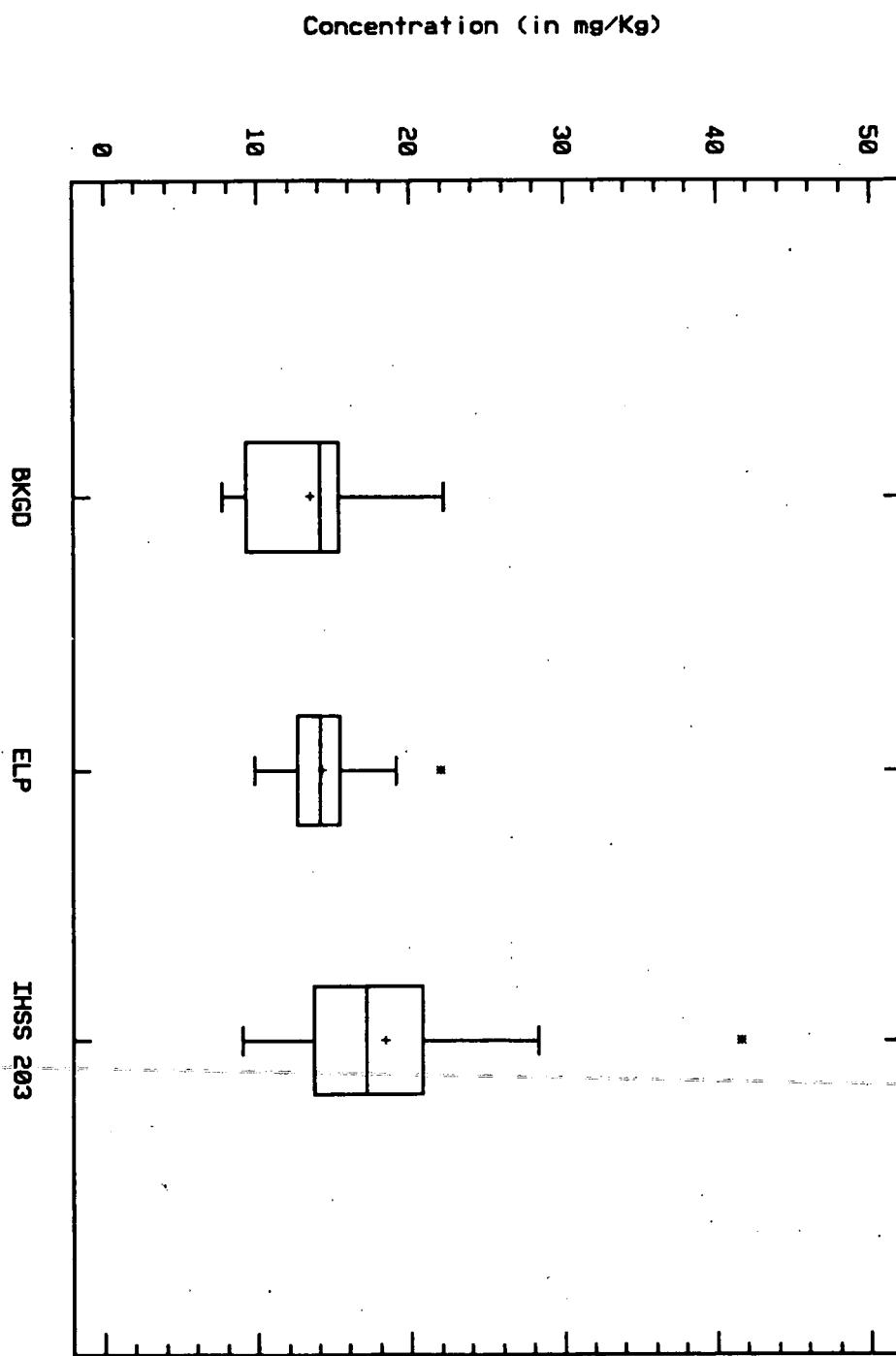
Chromium
Surface Soils: 0-10 (inches)



Cobalt †
Surface Soils: 0-10 (inches)

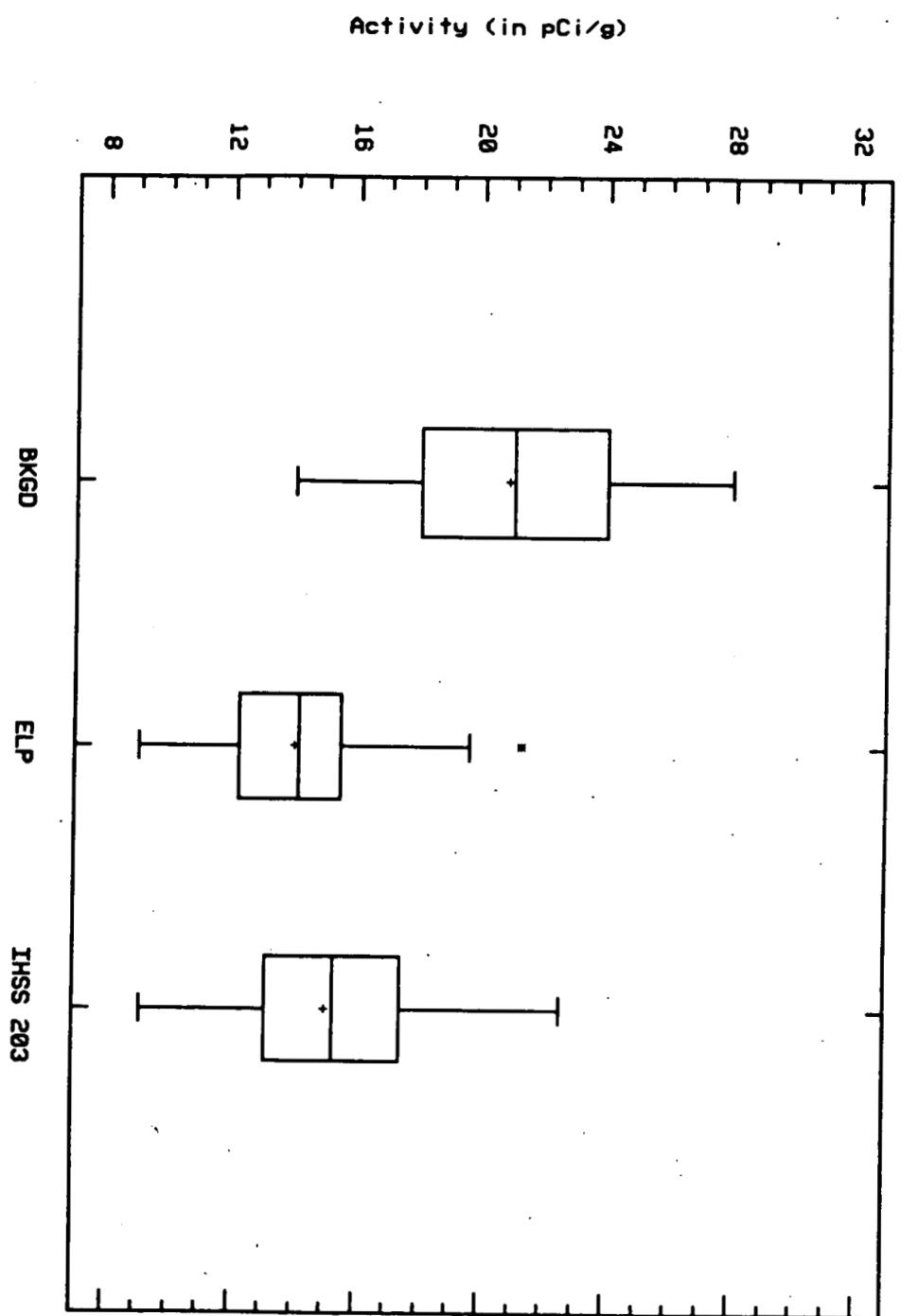


COPPER
Surface Soils: 0-10 (inches)

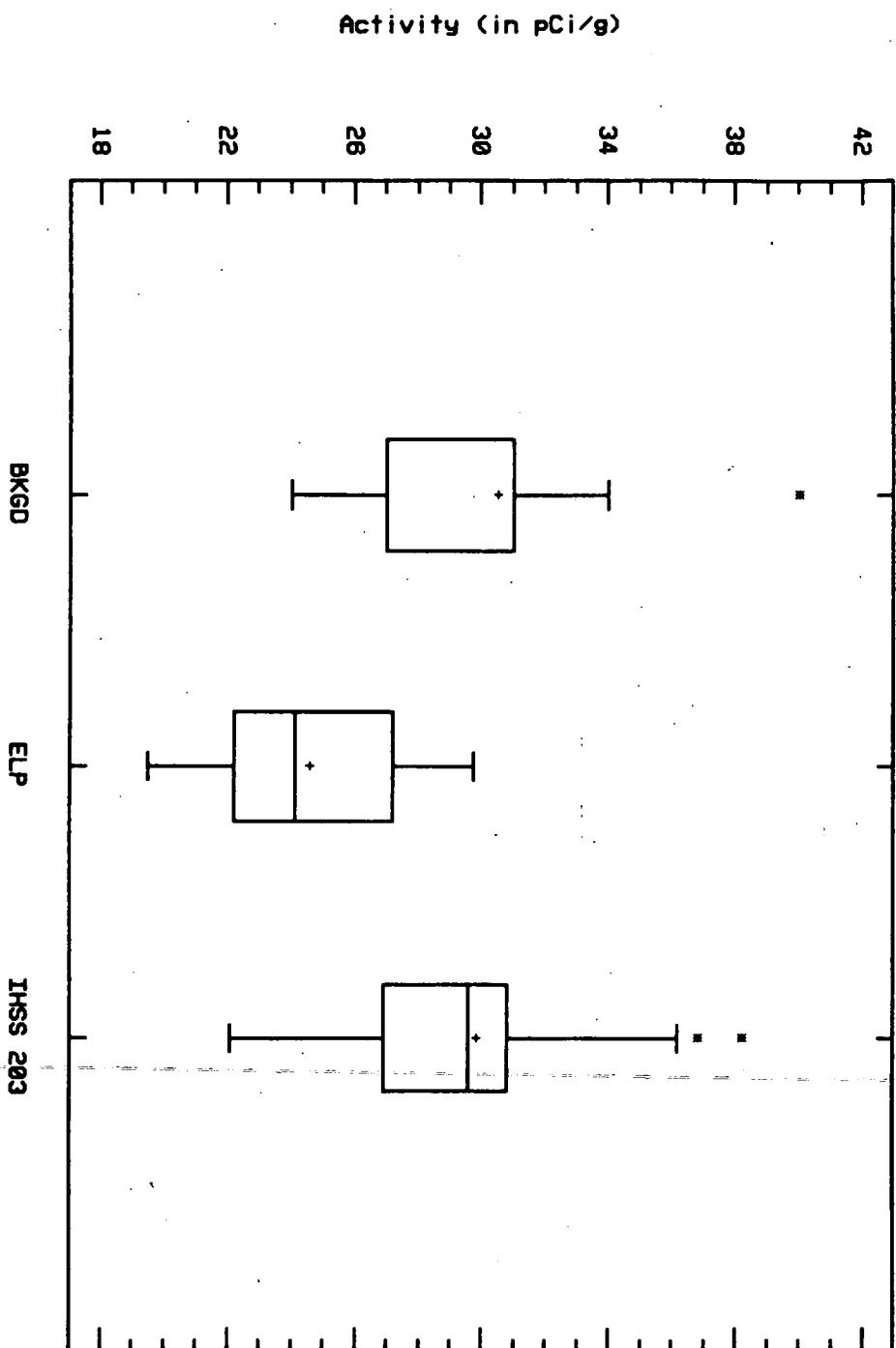


BKGD ELP IHSS 203

Gross Alpha
Surface Soils: 0-10 (inches)



Gross Beta
Surface Soils: 0-10 (inches)

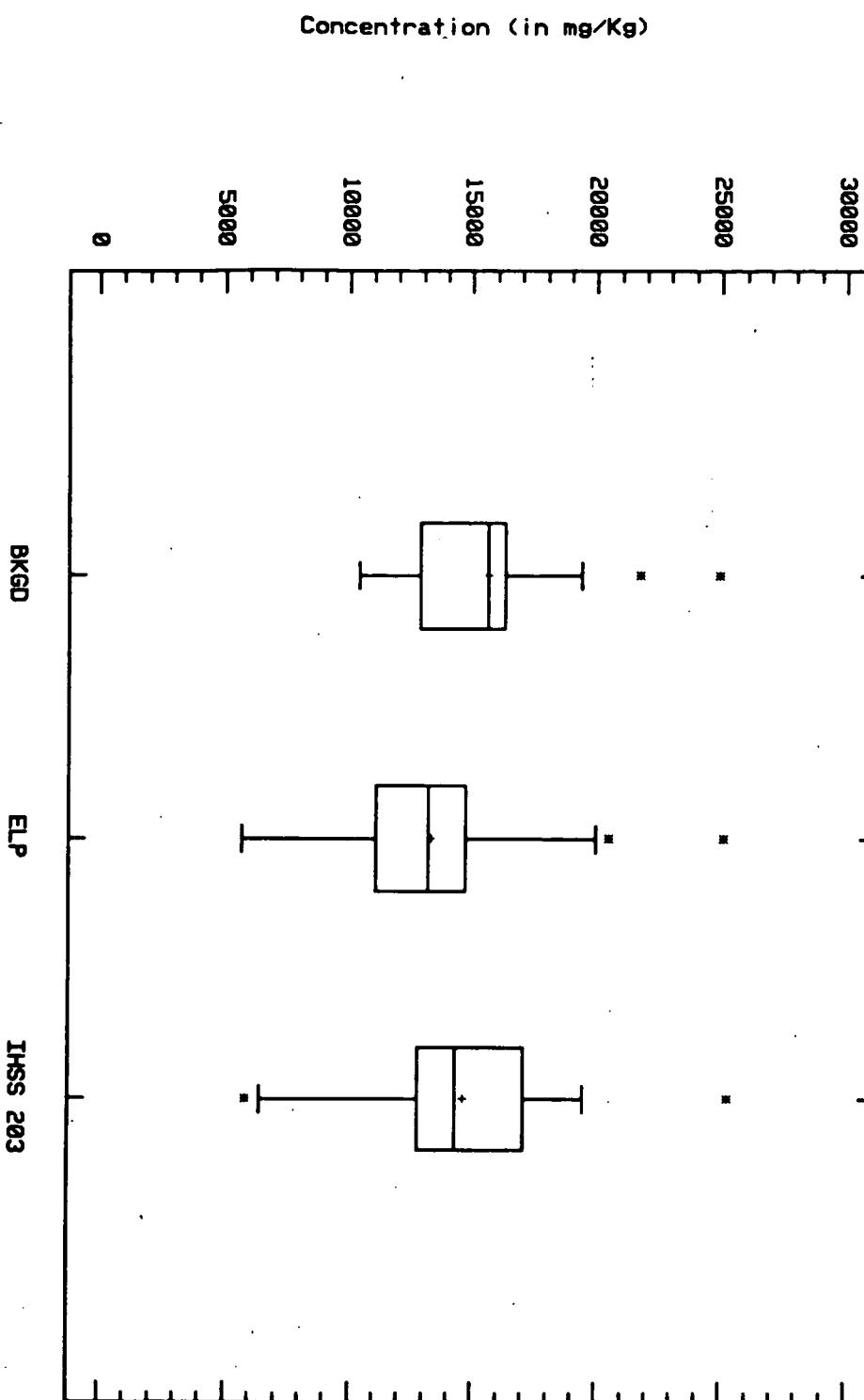


BKGD

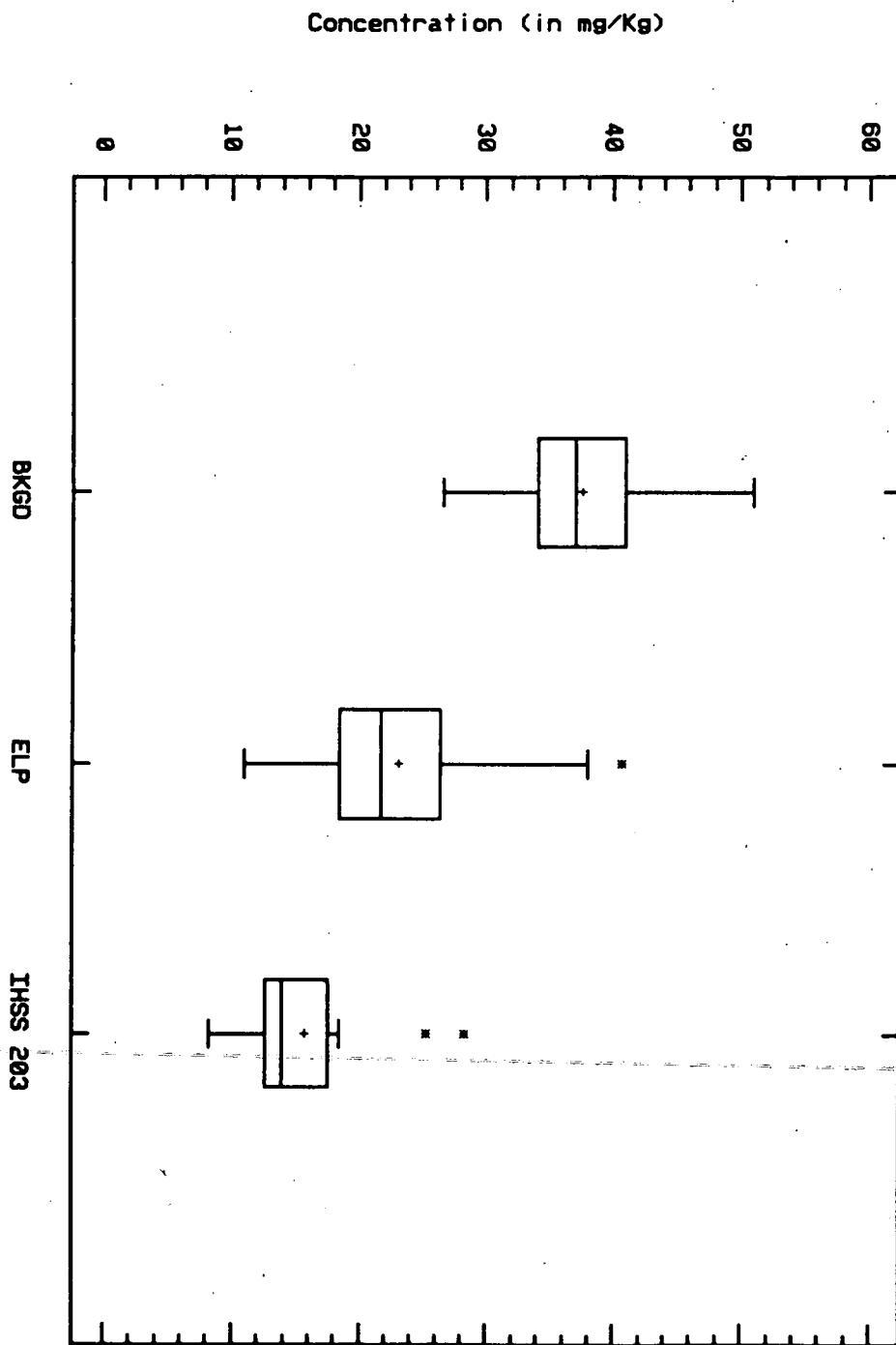
ELP

IHSS 203

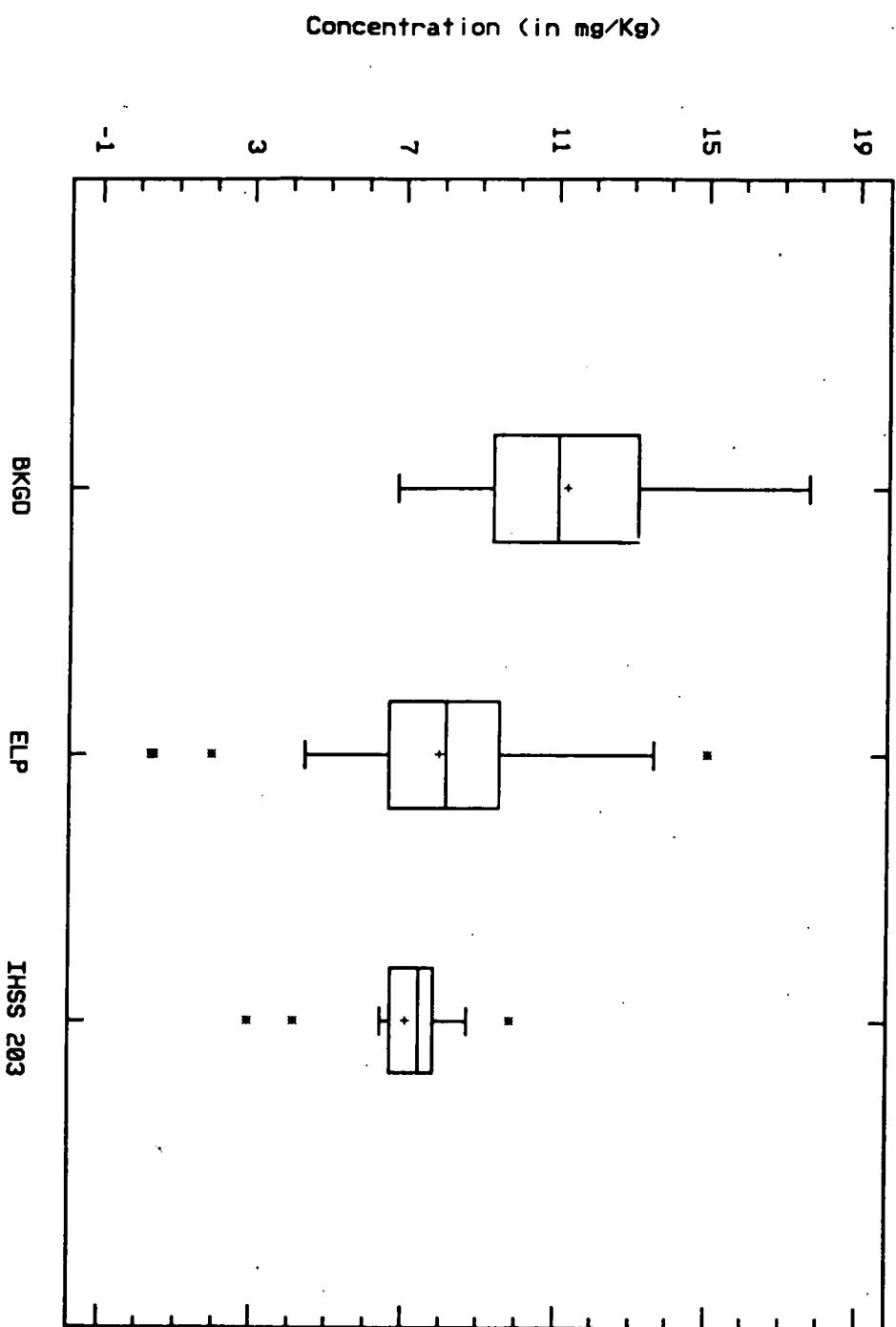
Iron
Surface Soils: 0-10 (inches)



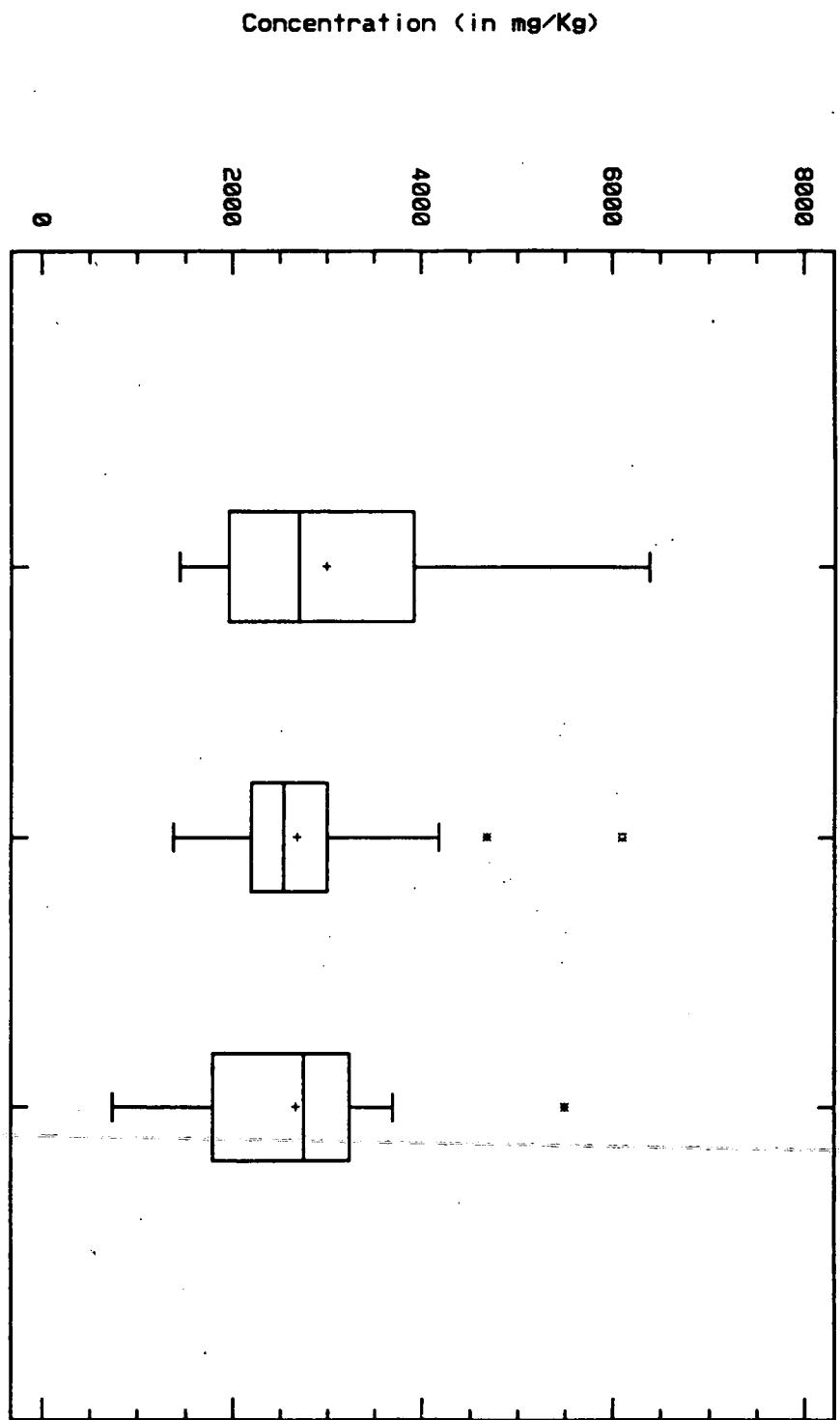
Lead
Surface Soils: 0-10 (inches)



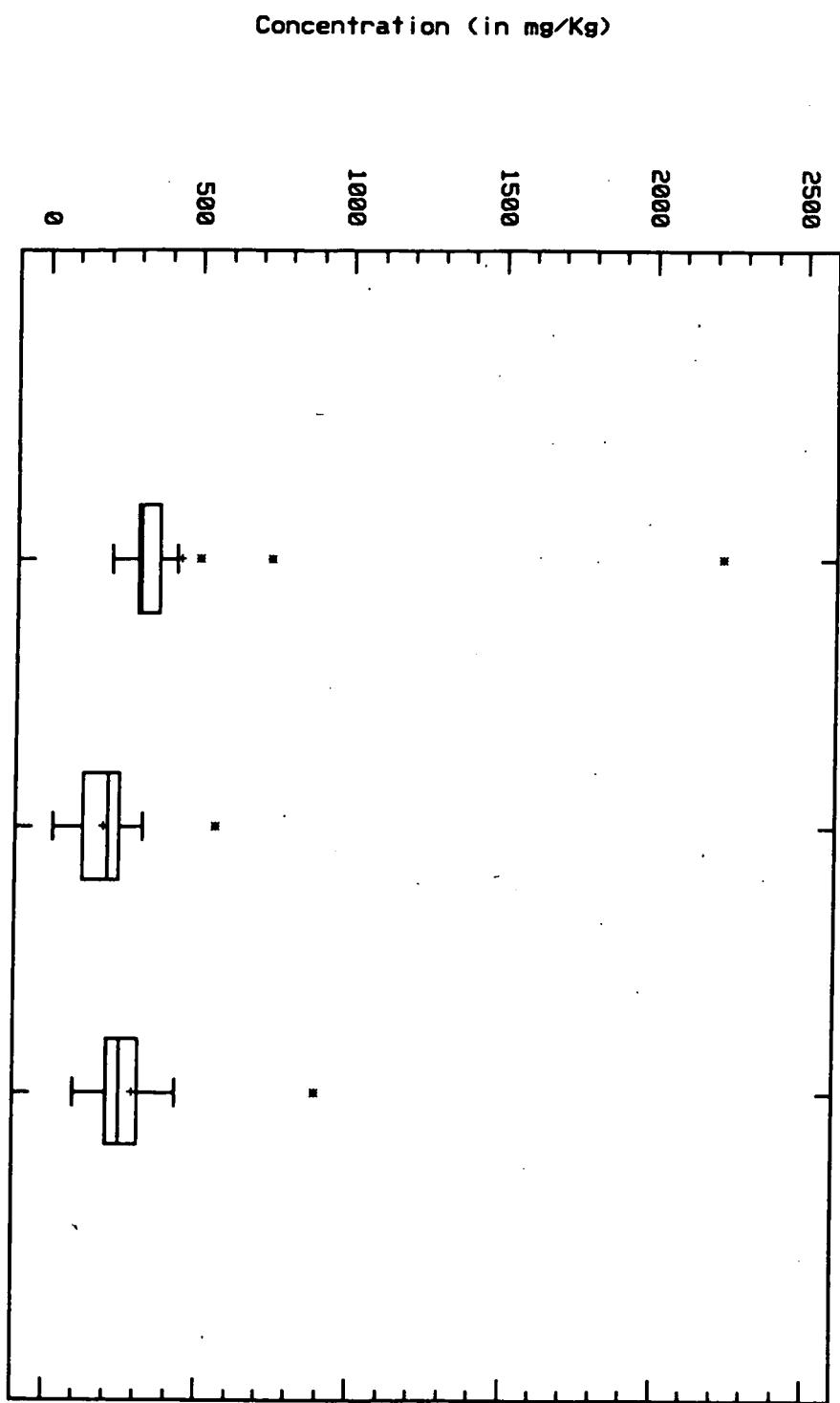
Lithium
Surface Soils: 0-10 (inches)



Magnesium
Surface Soils: 0-10 (inches)



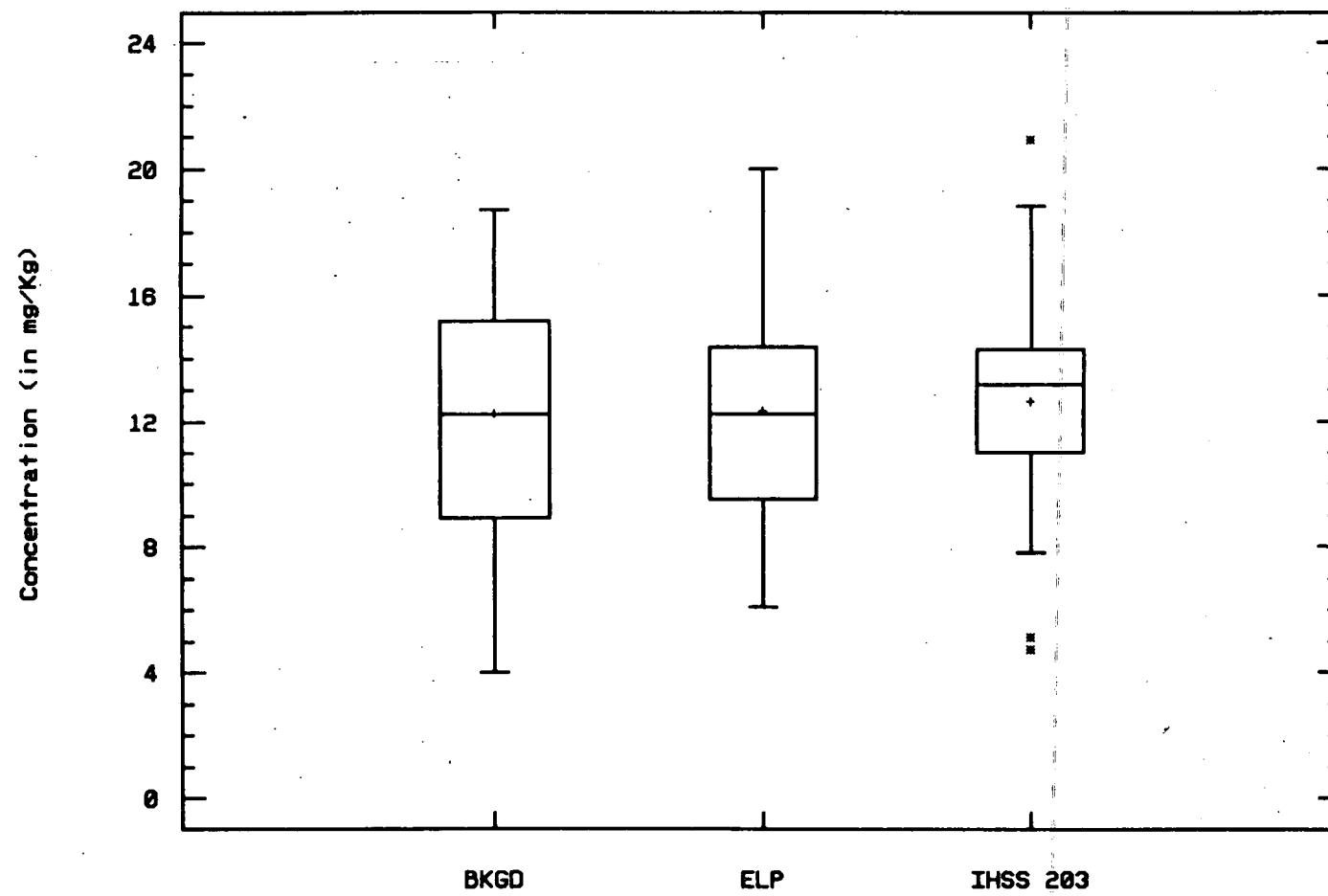
Manganese
Surface Soils: 0-10 (inches)



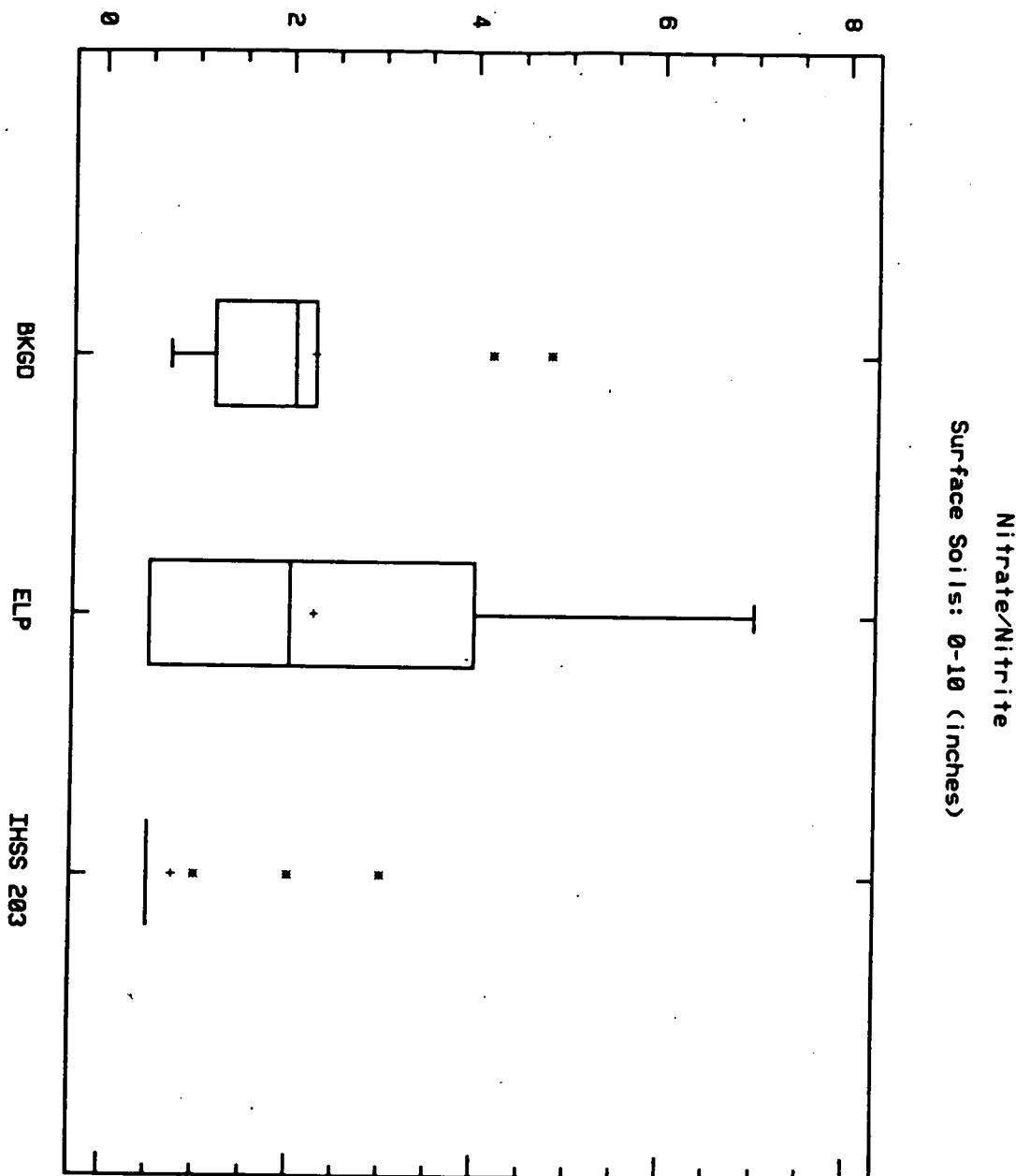
BKGD ELP IHSS 203

Nickel

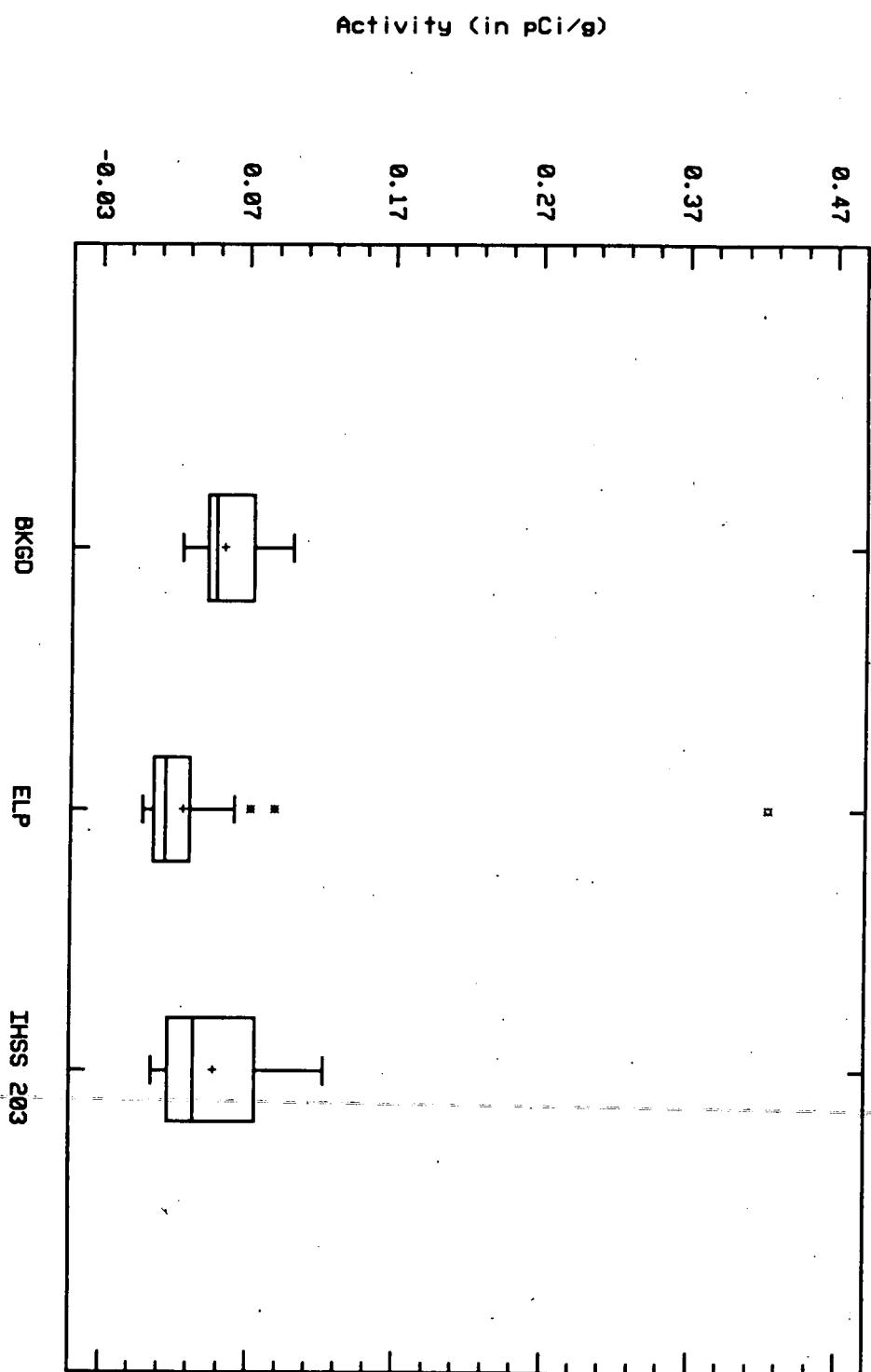
Surface Soils: 0-10 (inches)



Concentration (in mg/Kg)

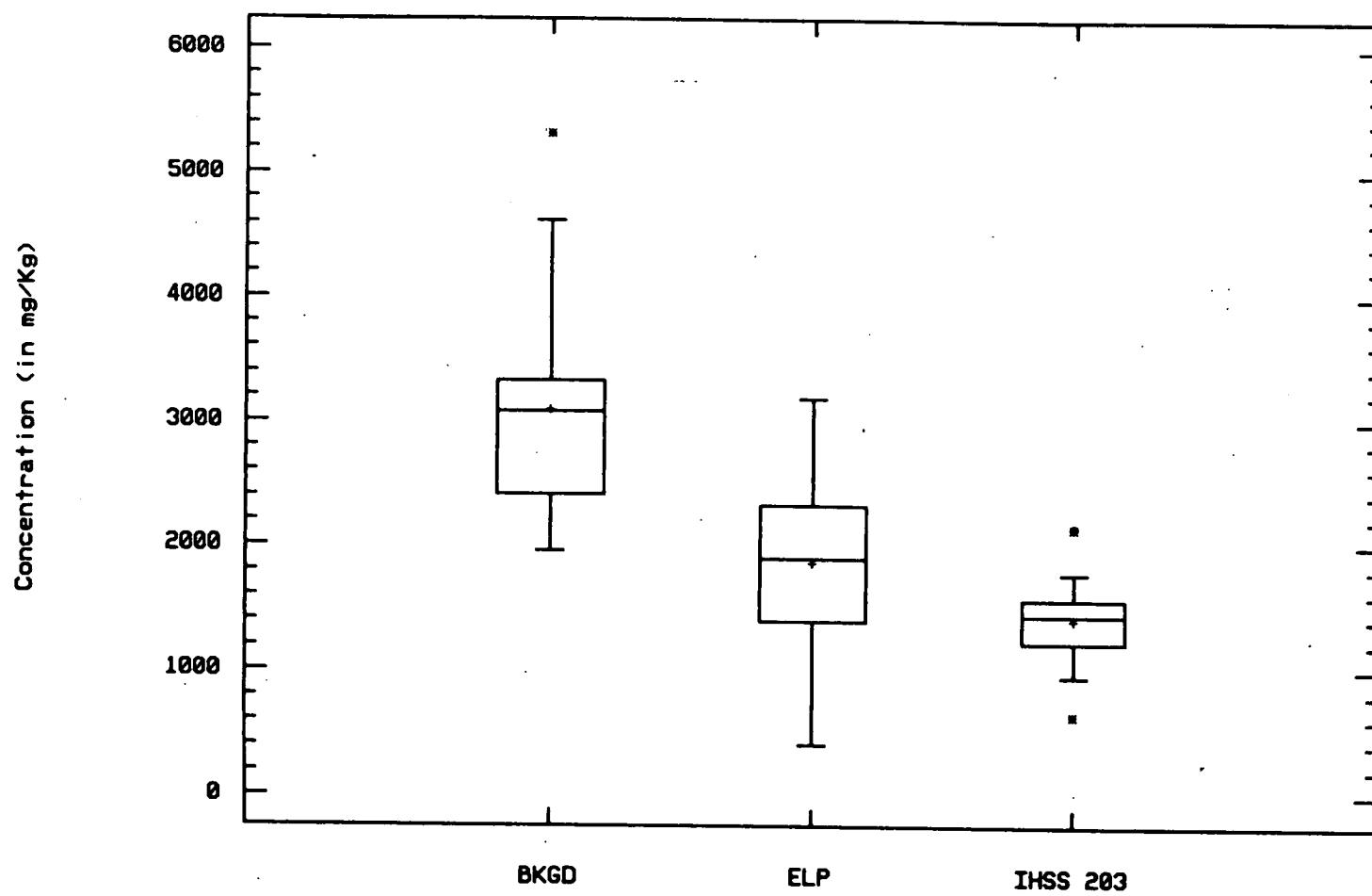


Plutonium-239/240
Surface Soils: 0-10 (inches)

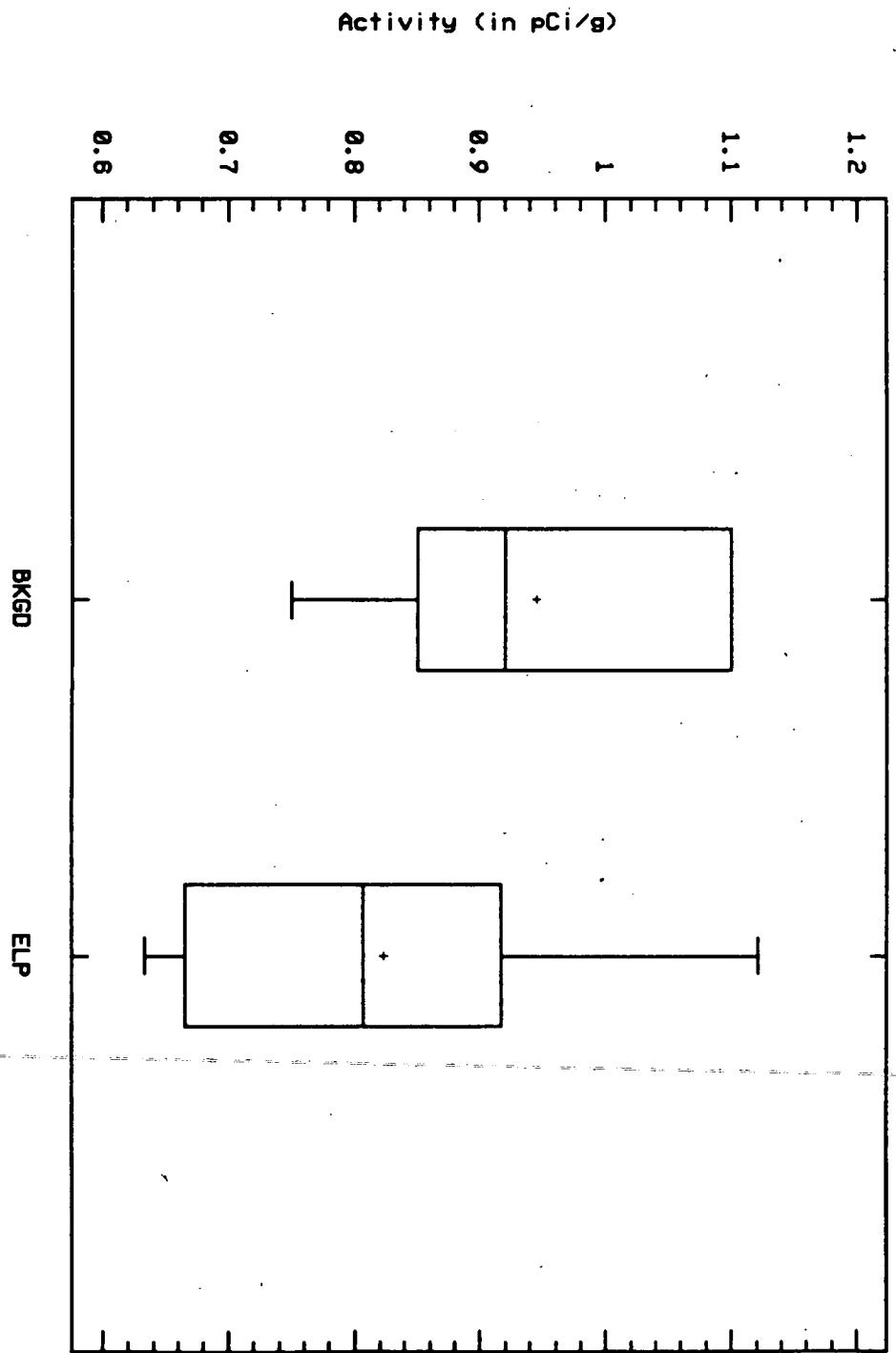


Potassium

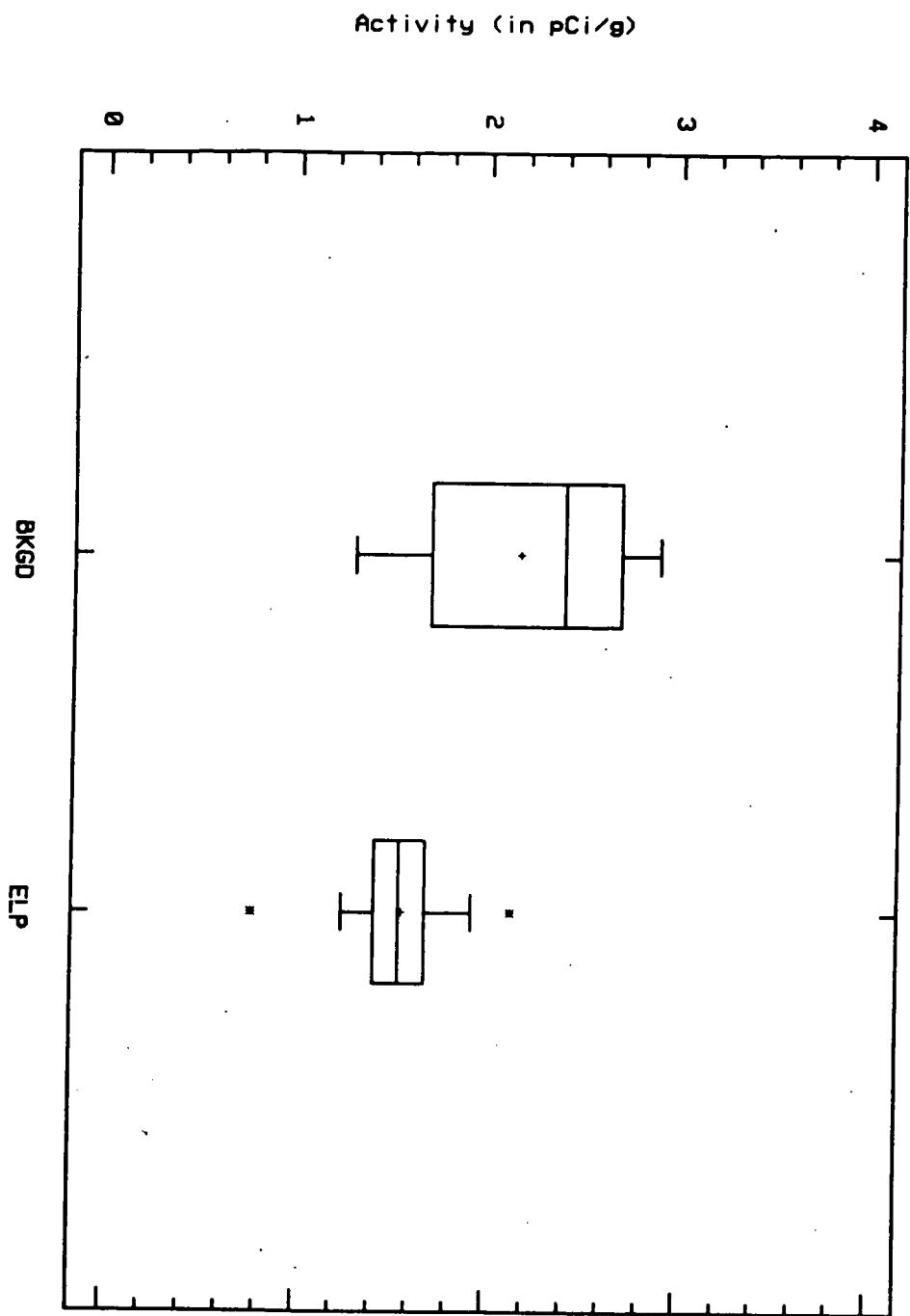
Surface Soils: 0-10 (inches)



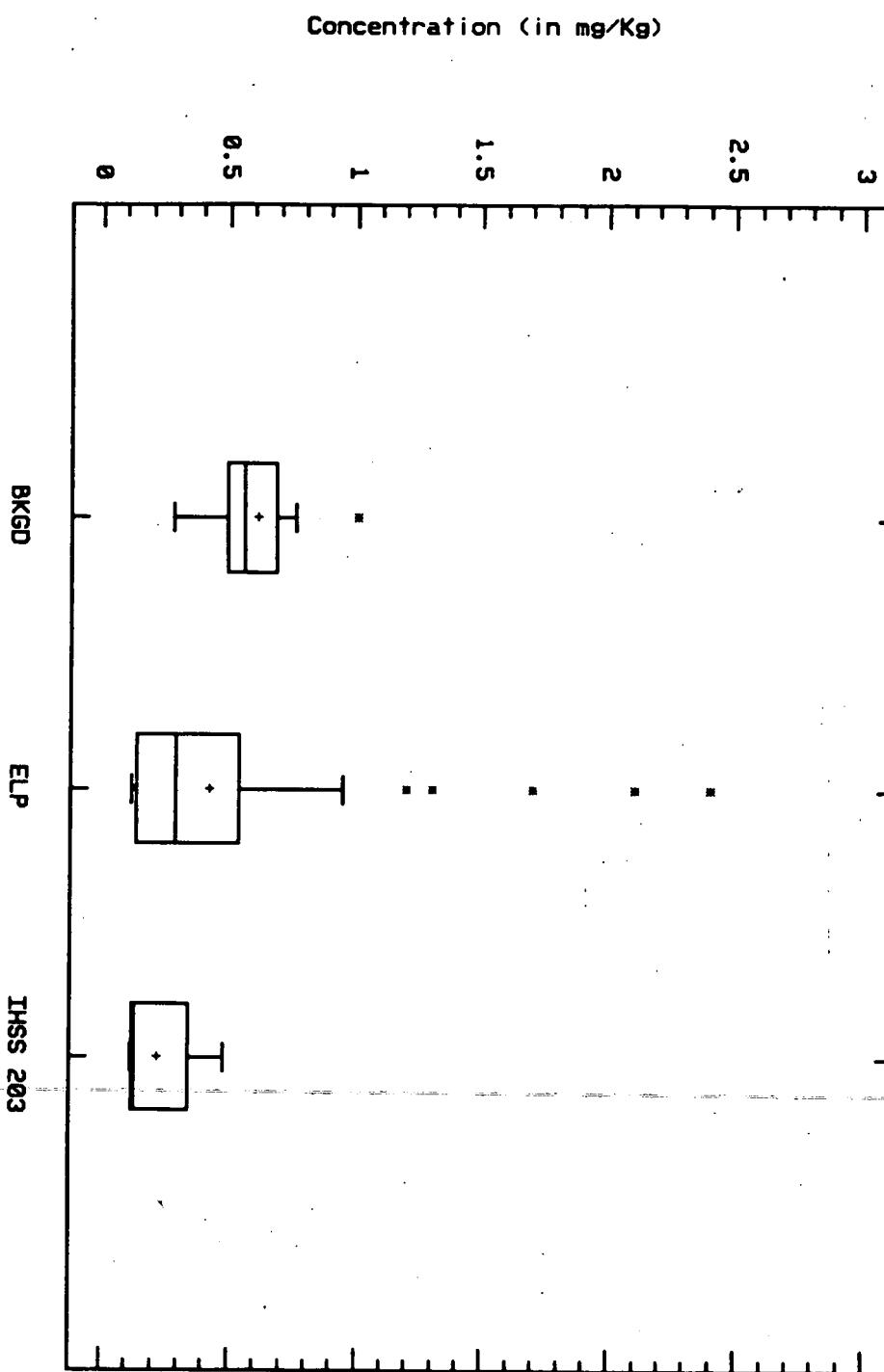
Radium-226
Surface Soils: 0-10 (inches)



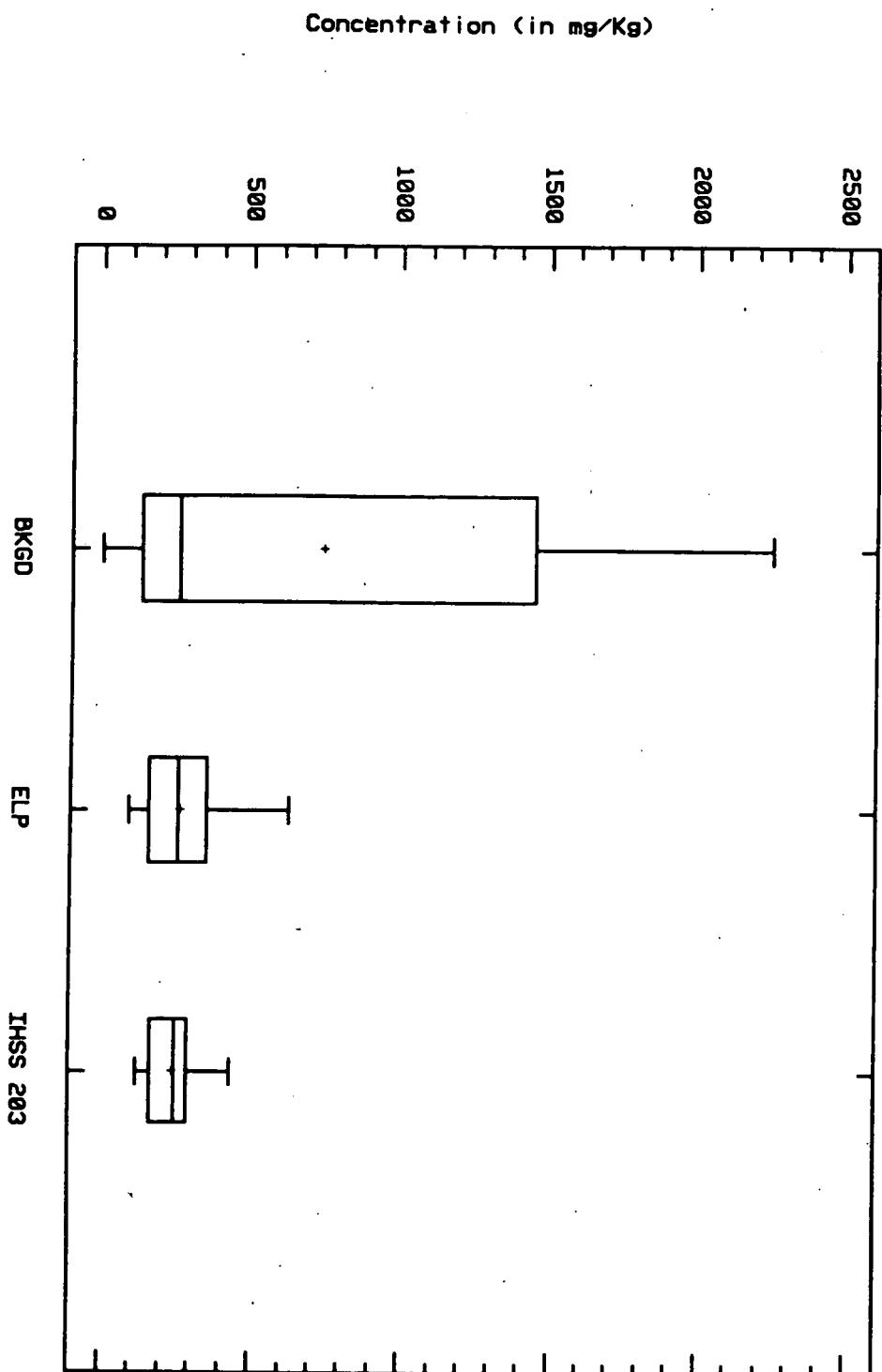
Radium-228
Surface Soils: 0-10 (inches)



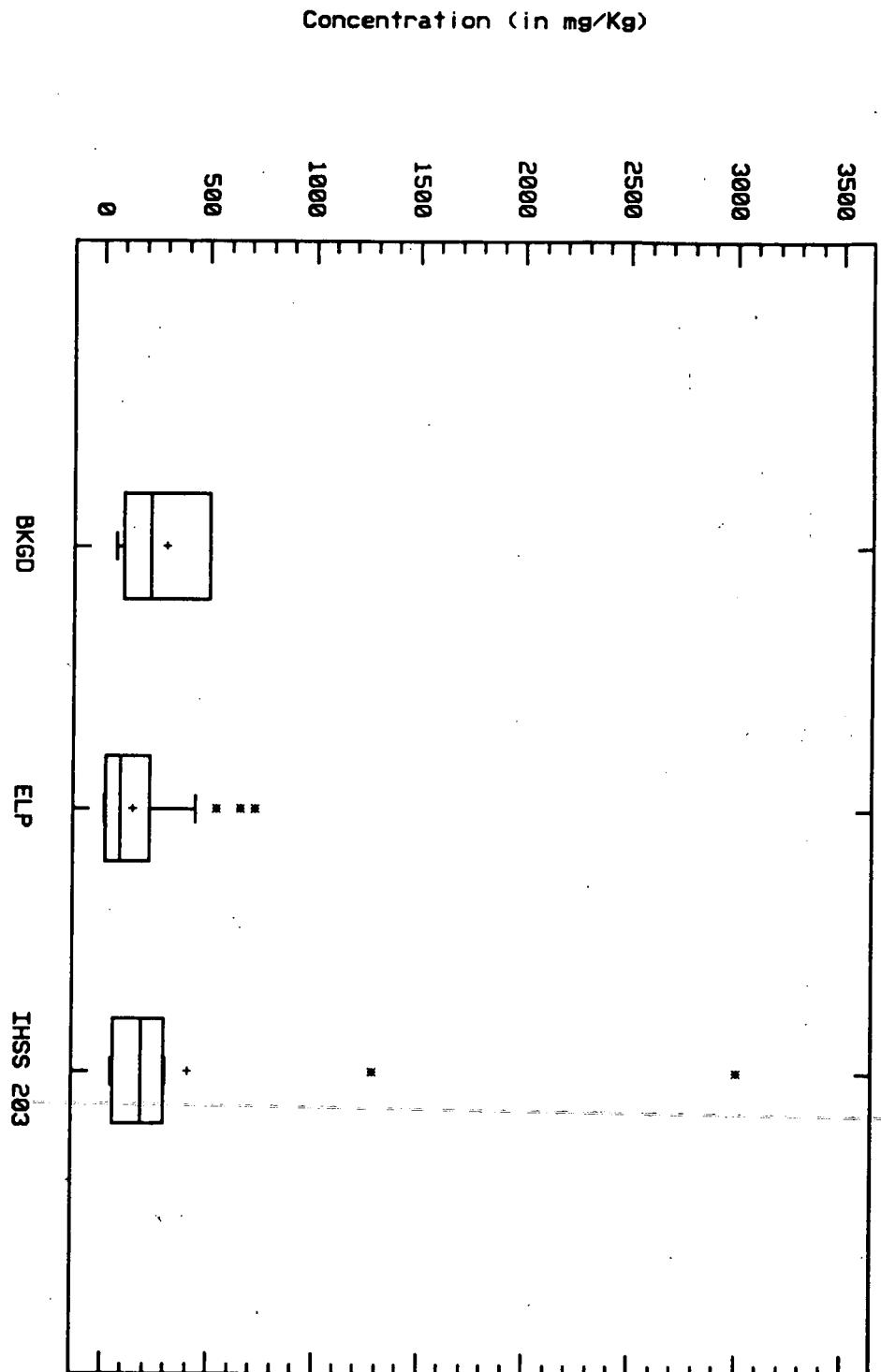
Selenium
Surface Soils: 0-10 (inches)



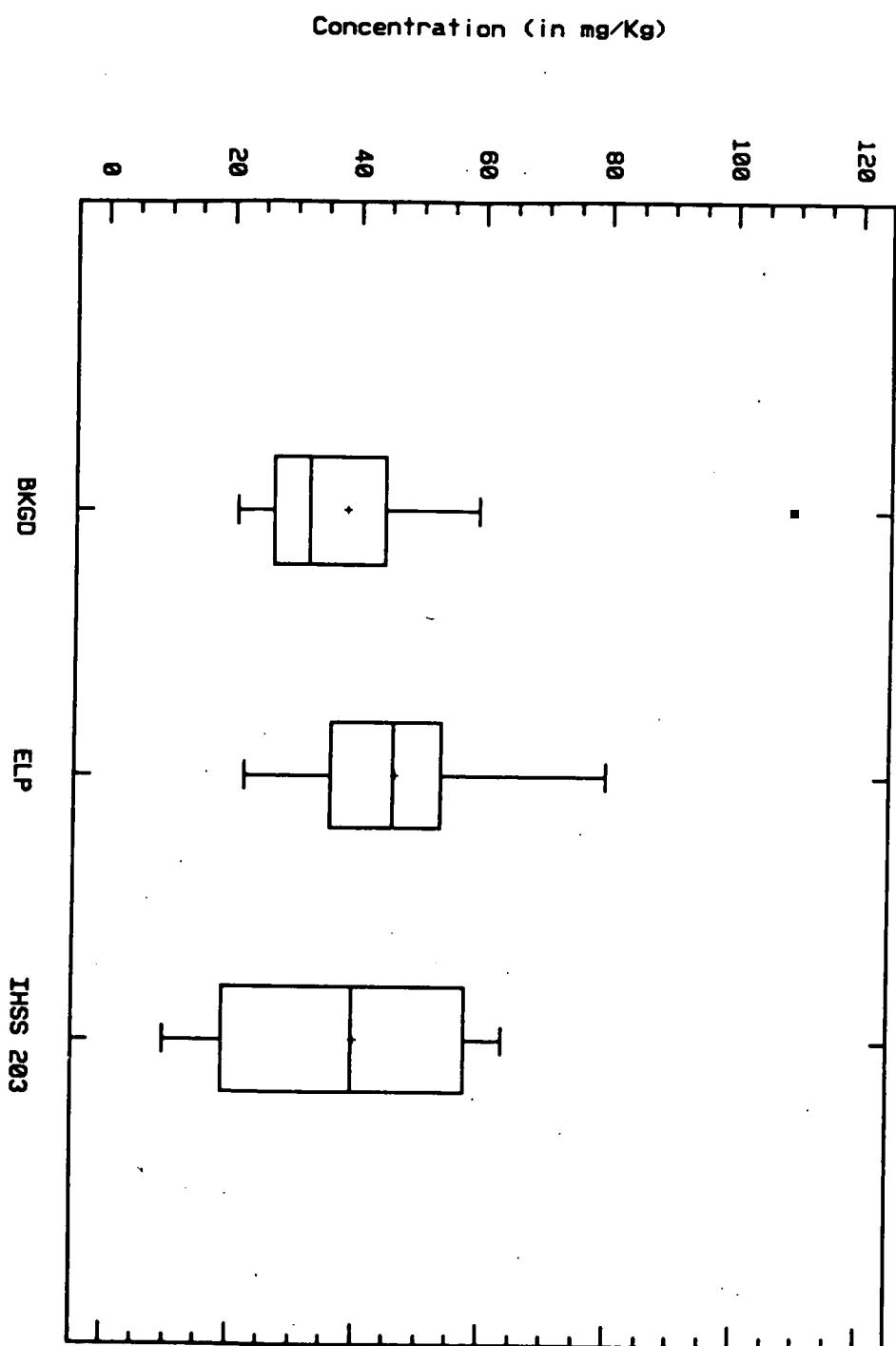
Silicon
Surface Soils: 0-10 (inches)



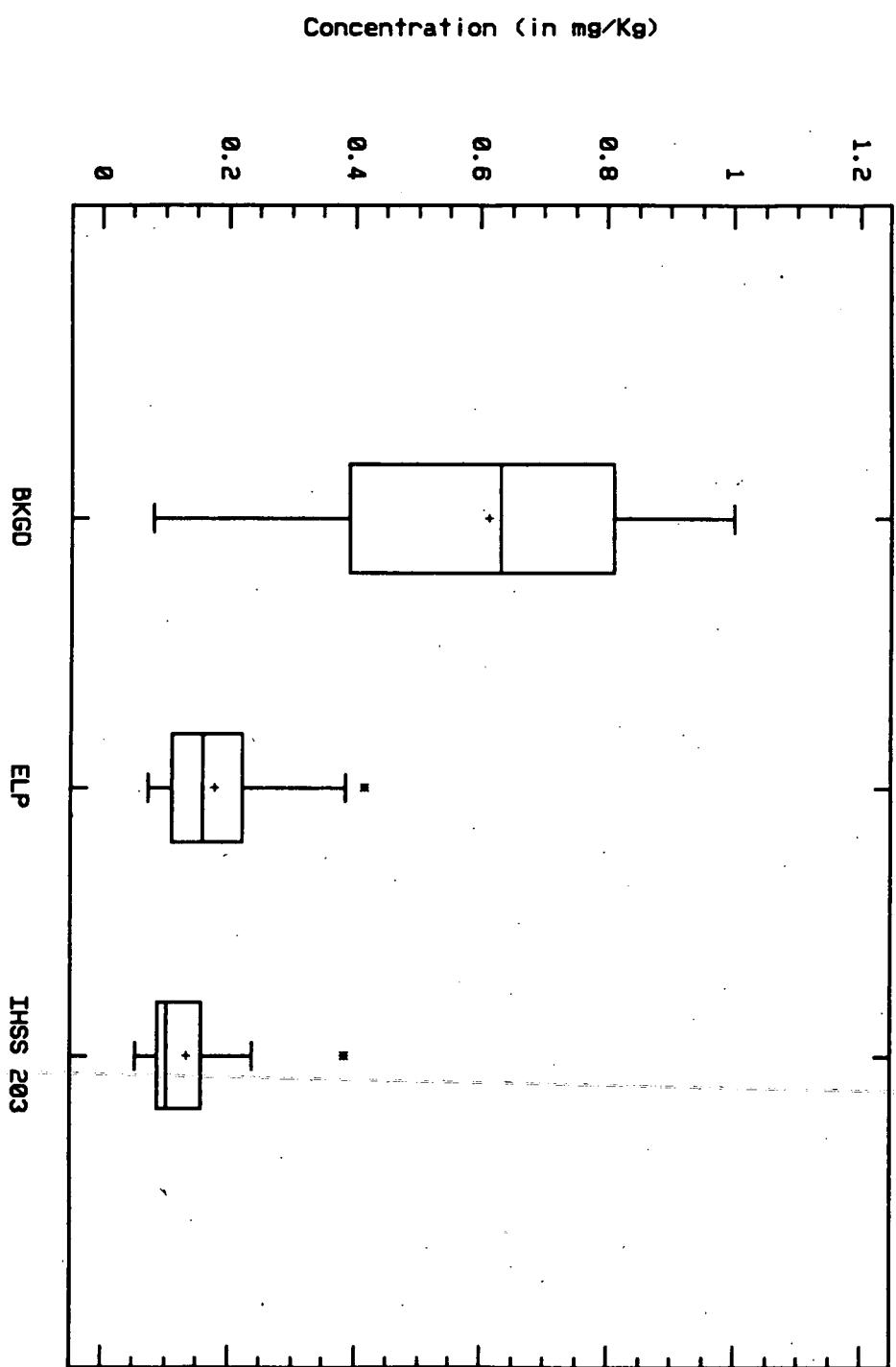
Sodium
Surface Soils: 0-10 (inches)



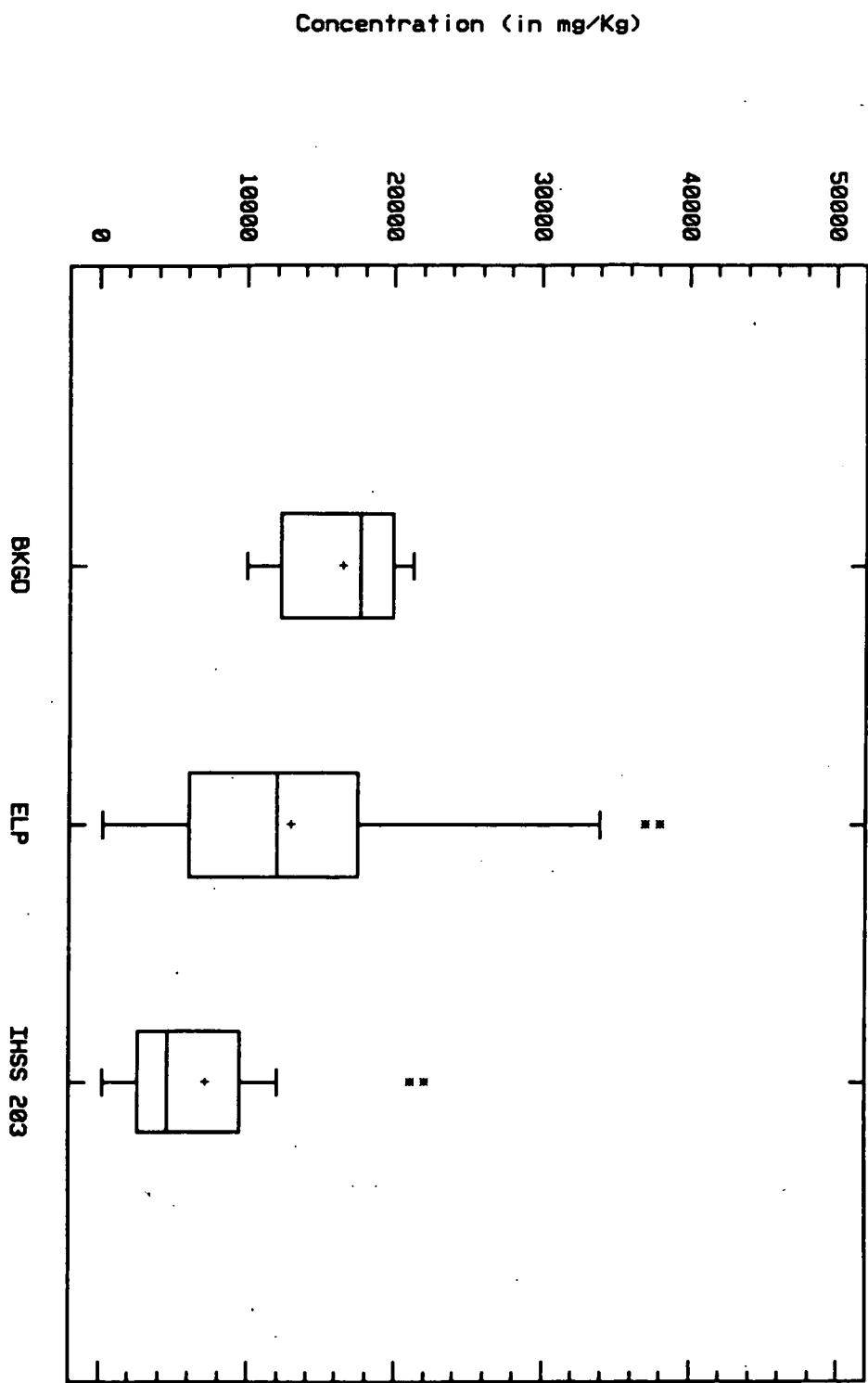
Strontium
Surface Soils: 0-10 (inches)



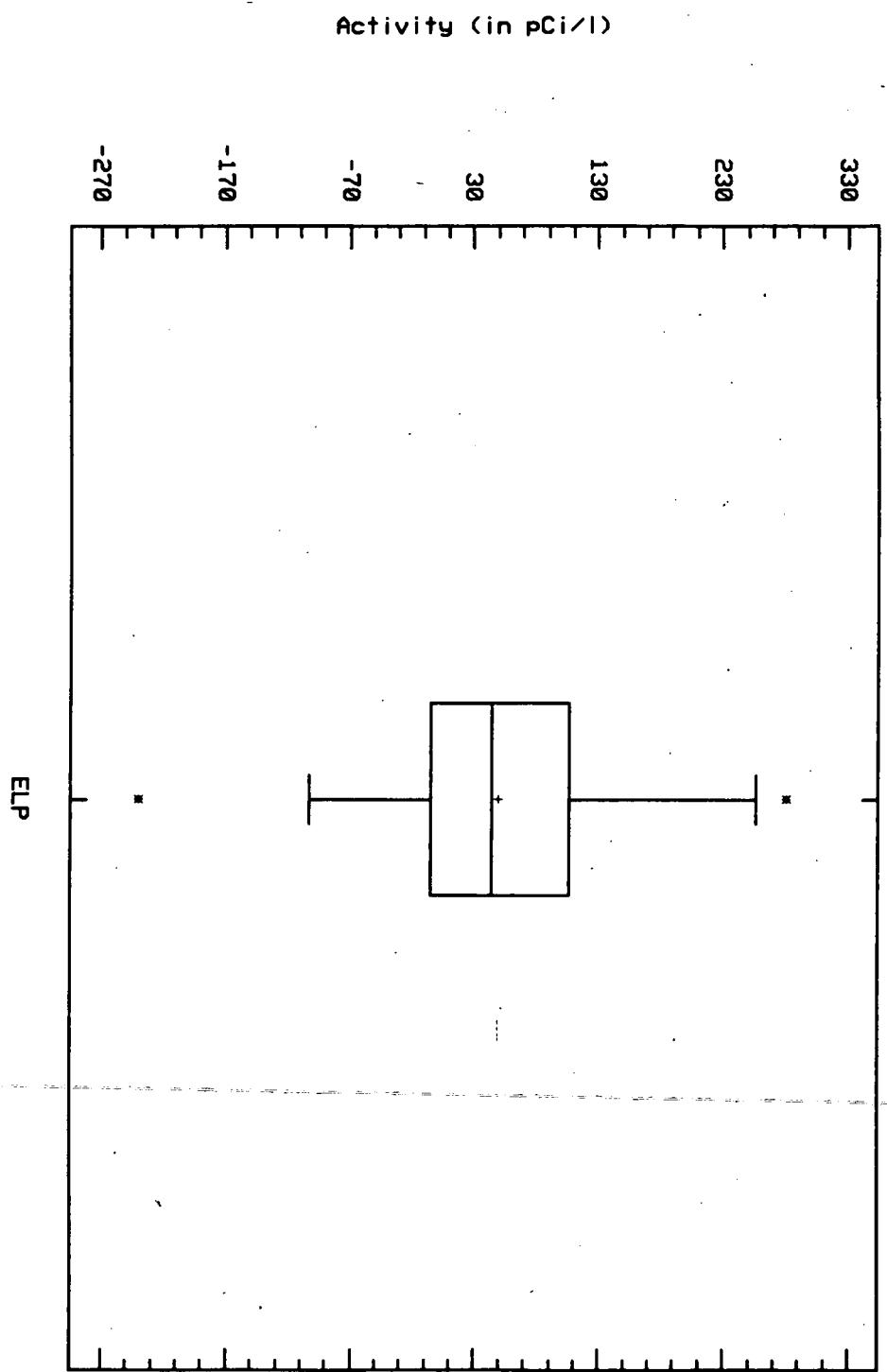
Strontium-89, 90
Surface Soils: 0-10 (inches)



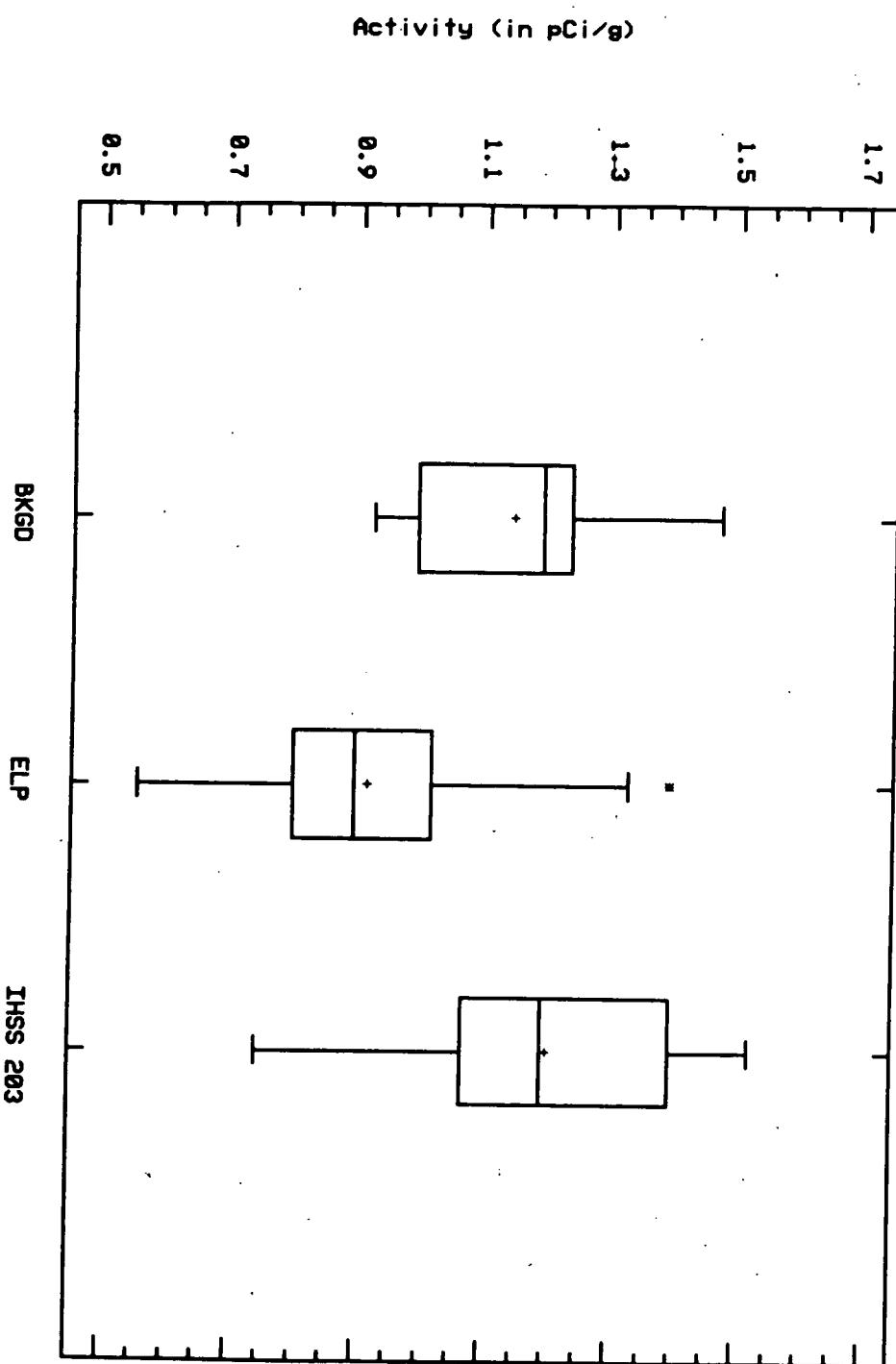
Total Organic Carbon
Surface Soils: 0-10 (inches)



Tritium
Surface Soils: 0-10 (inches)

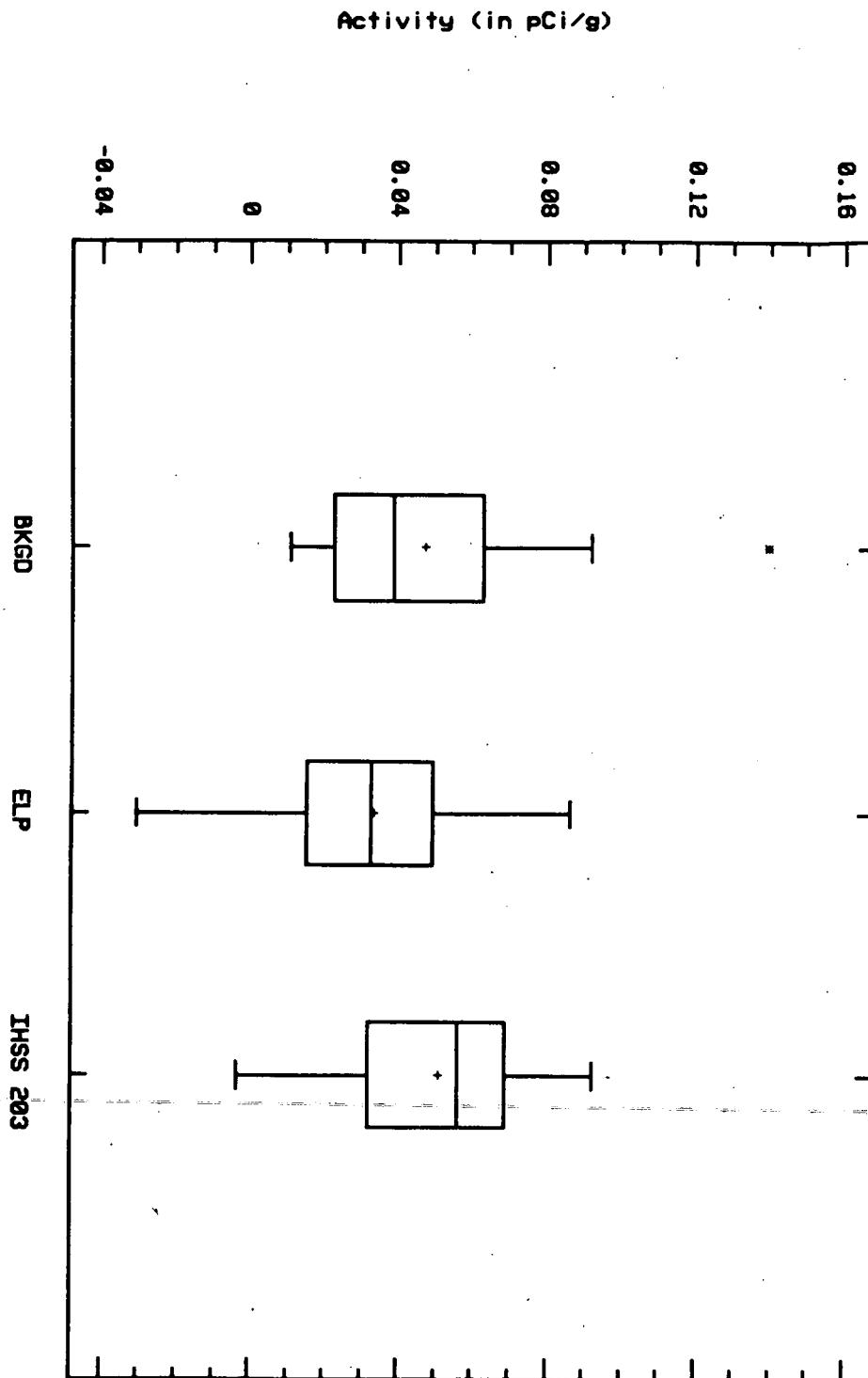


Uranium-233, 234
Surface Soils: 0-10 (inches)

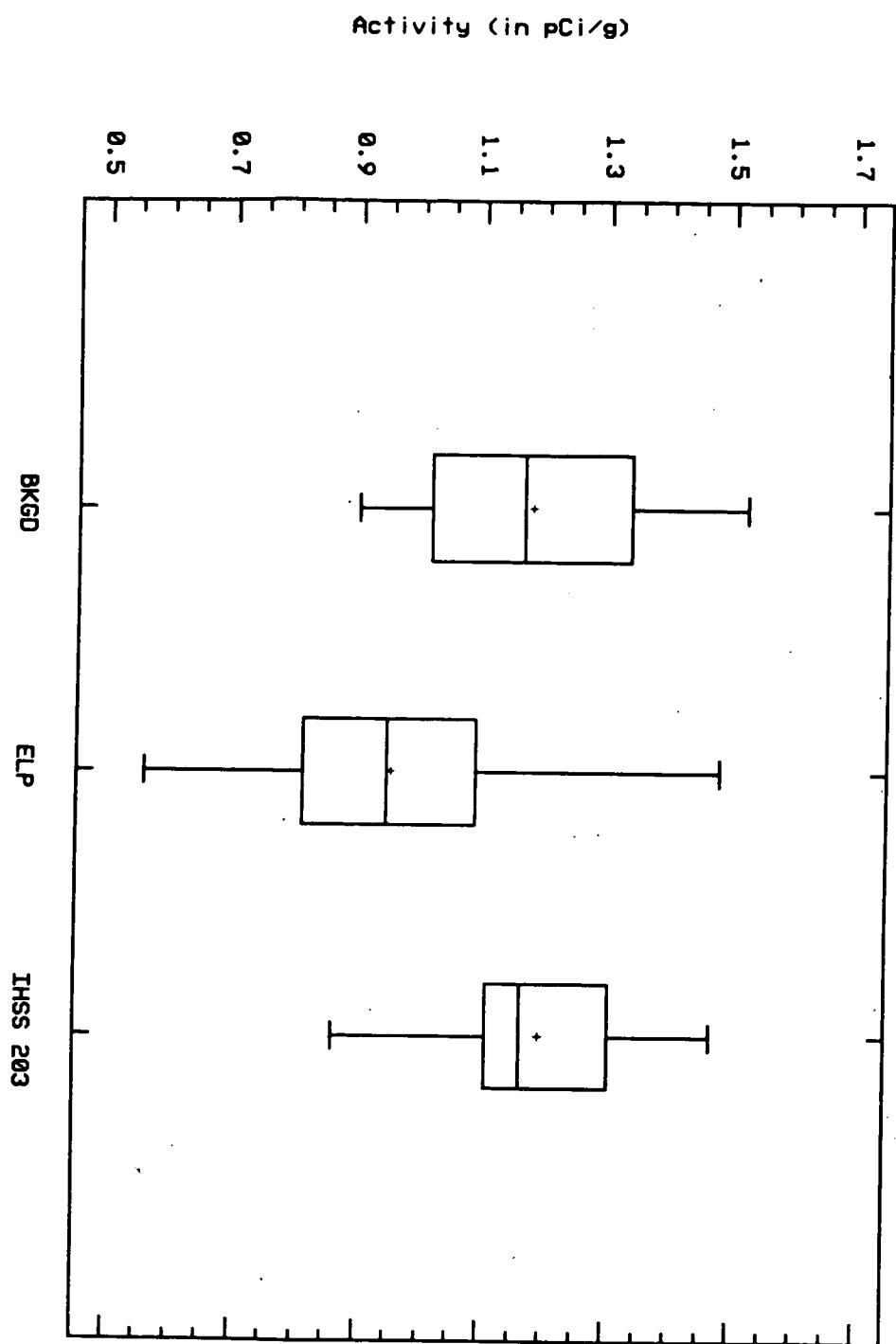


Uranium-235

Surface Soils: 0-10 (inches)

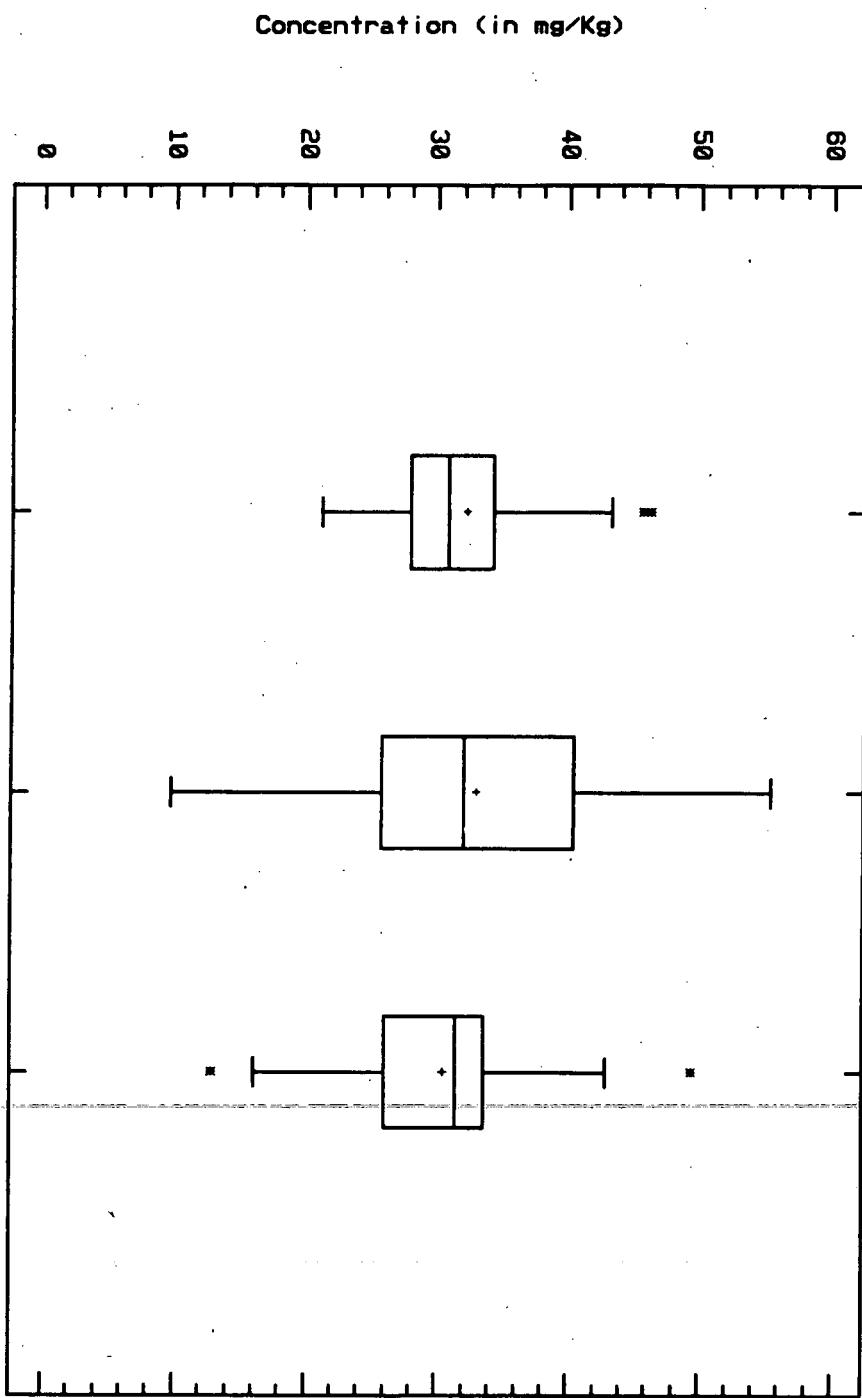


Uranium-238
Surface Soils: 0-10 (inches)

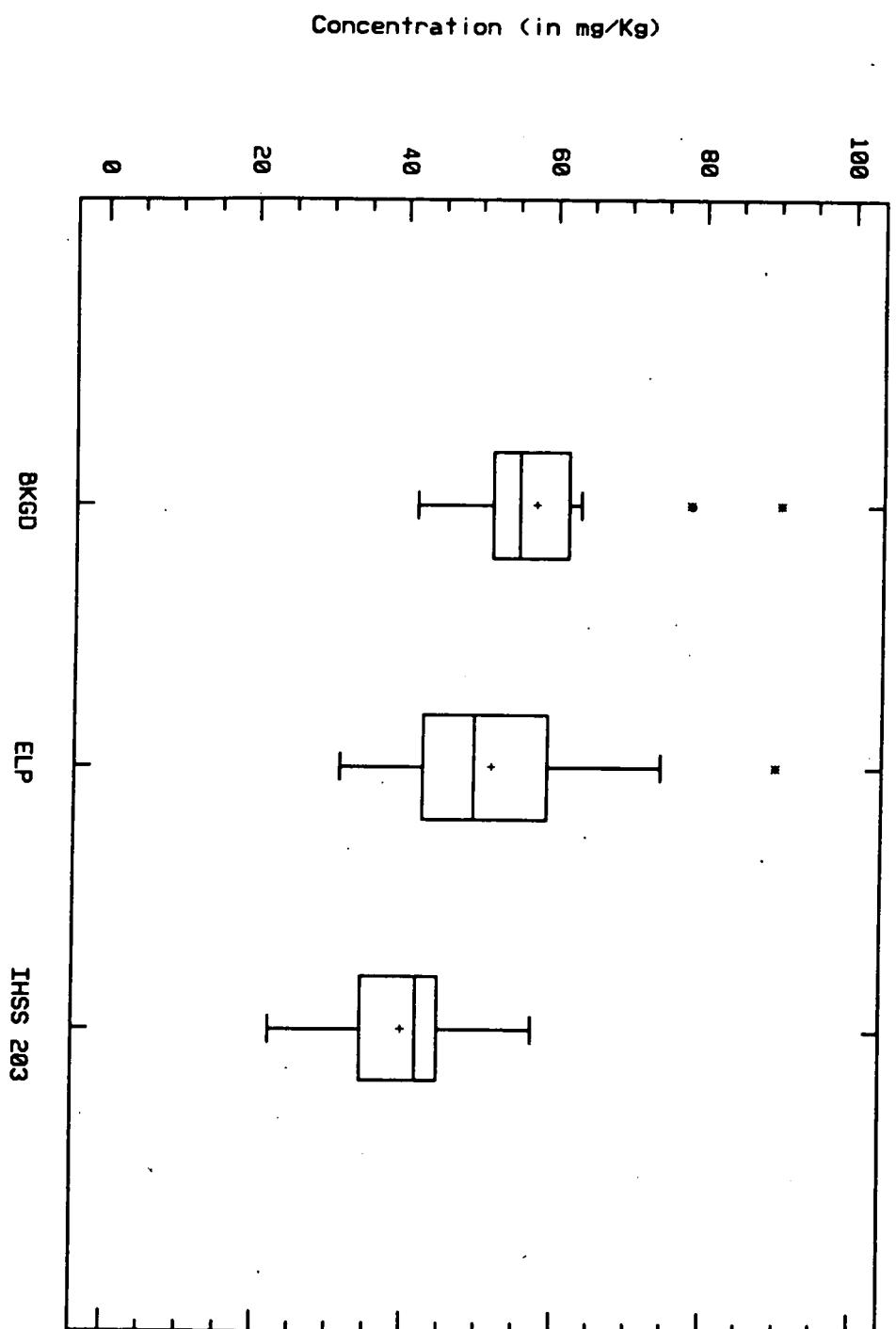


Vanadium

Surface Soils: 0-10 (inches)



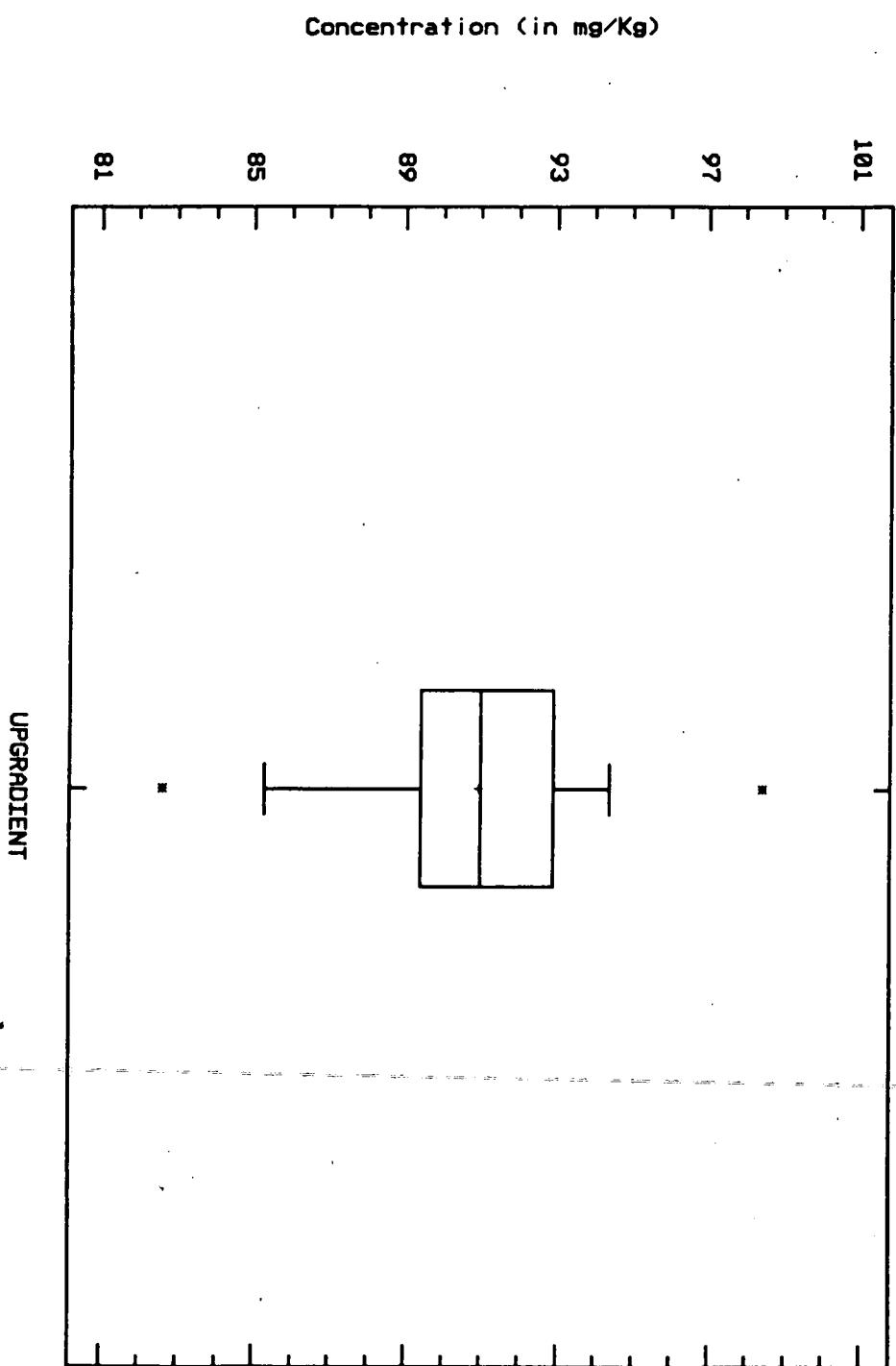
Zinc
Surface Soils: 0-10 (inches)



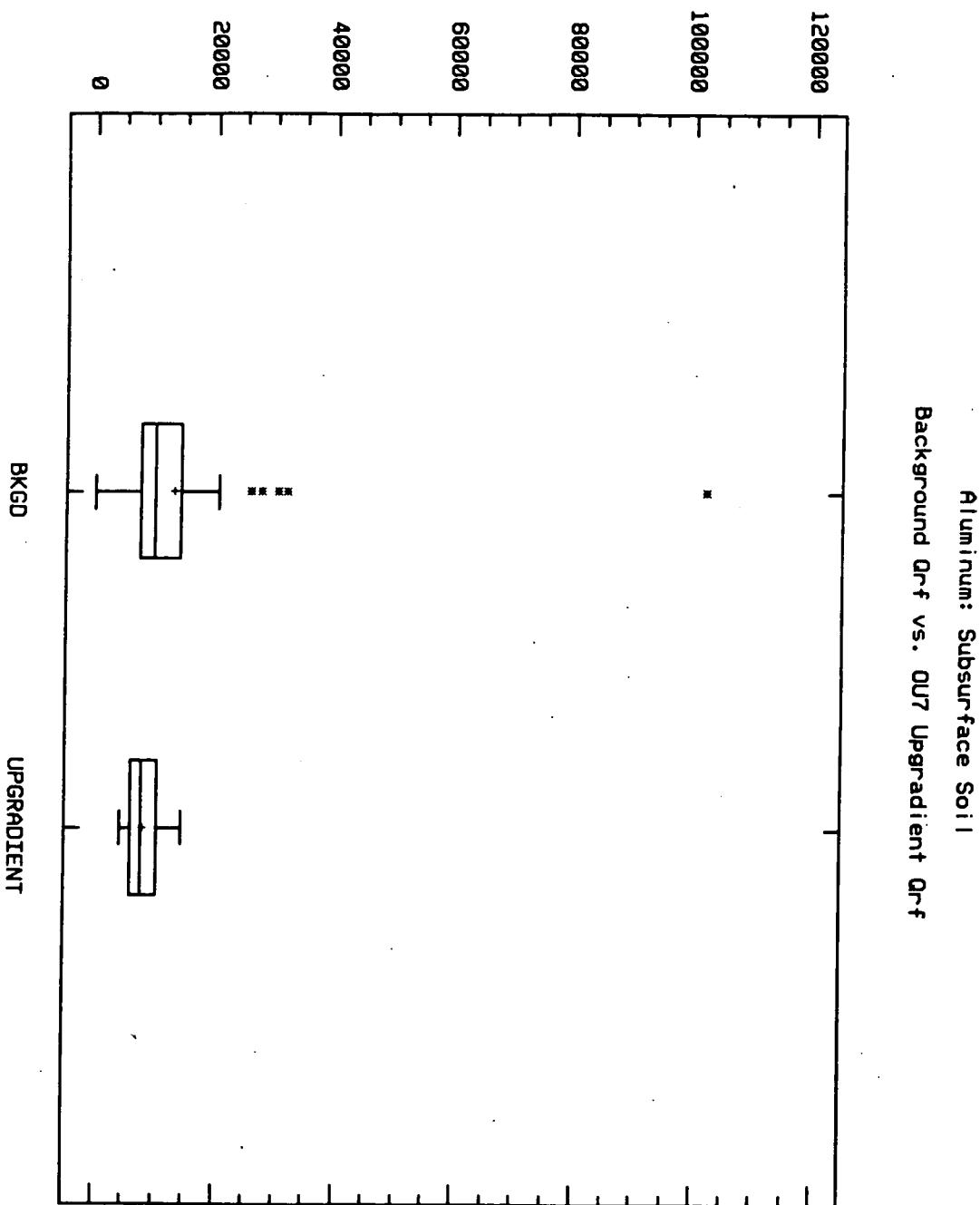
Subsurface Geologic Materials

Background vs. OU 7 Upgradient Qrf

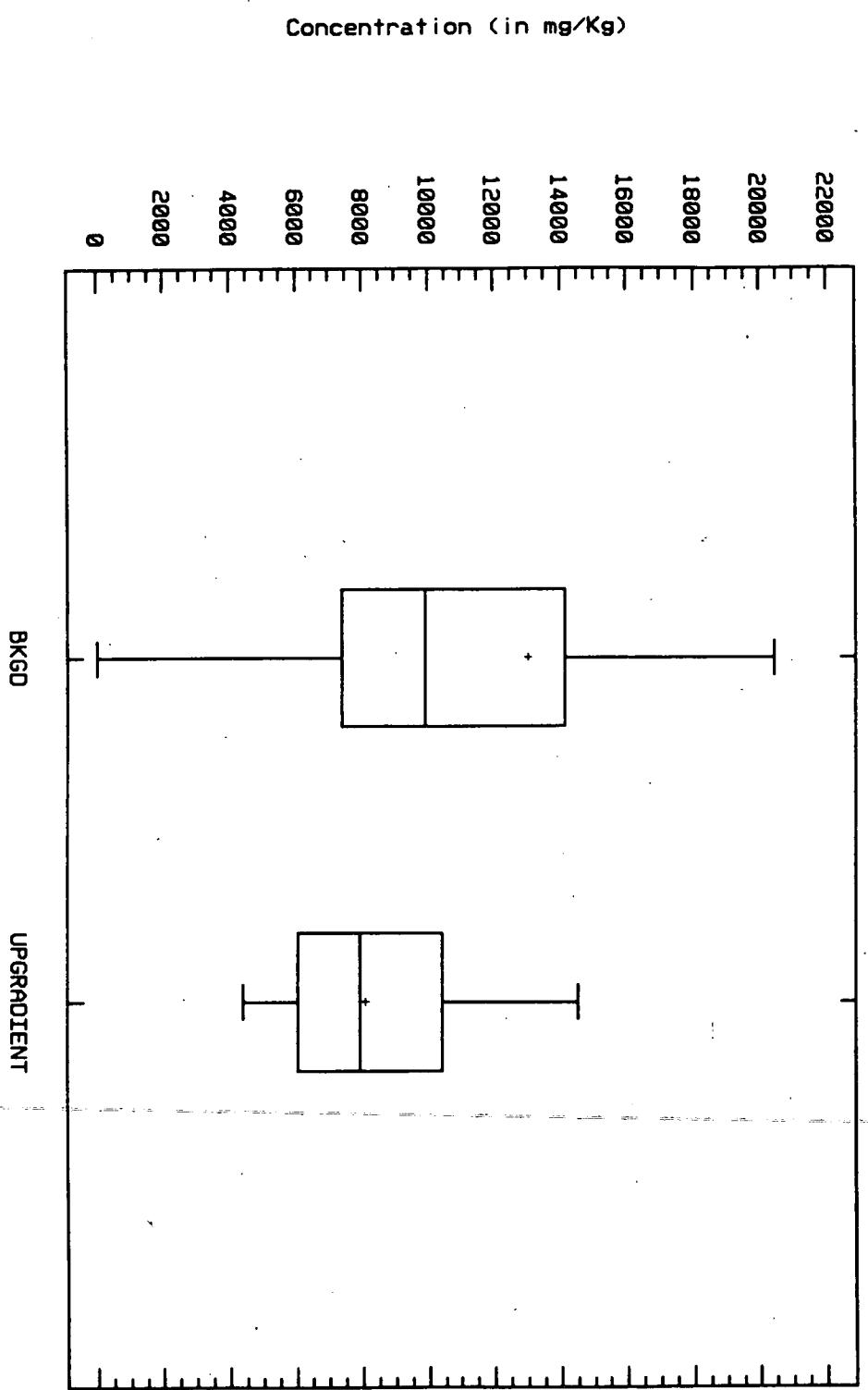
% Solids Subsurface Soil
Background Qnf vs. 017 Upgradient Qnf



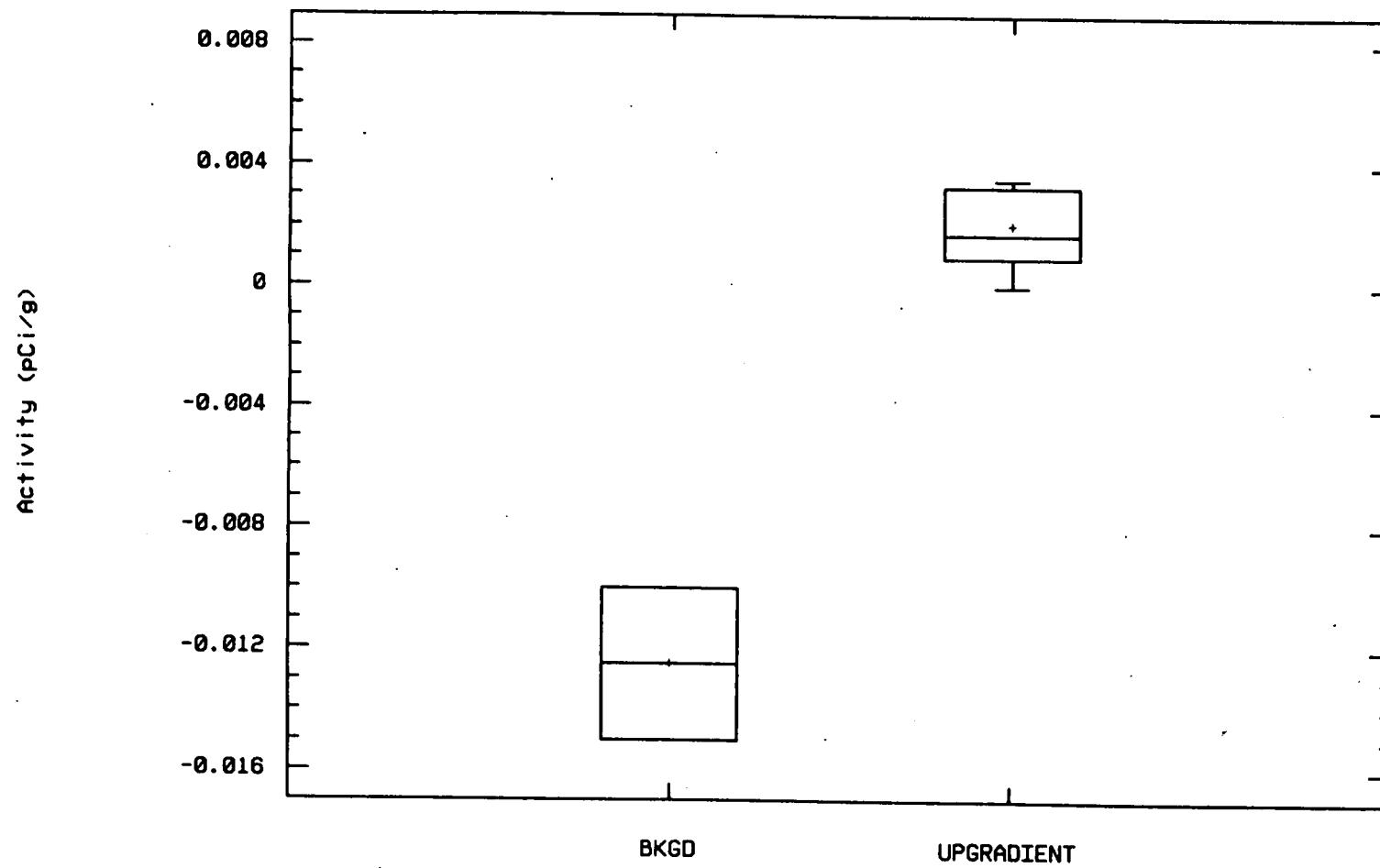
Concentration (in mg/Kg)



Aluminum: Subsurface Soil
Background Orf vs. OUT Upgradient Orf

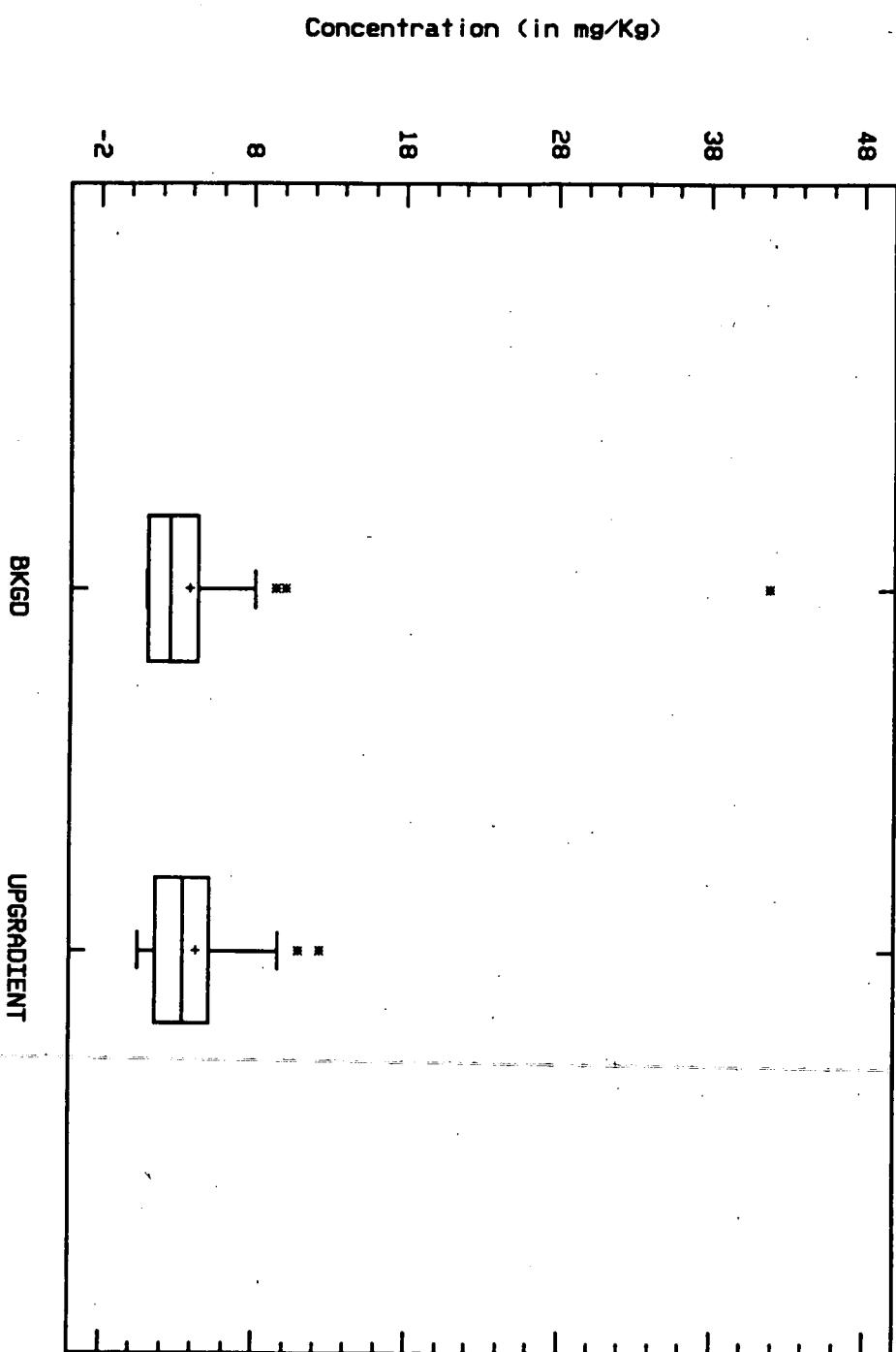


Americium-241: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf

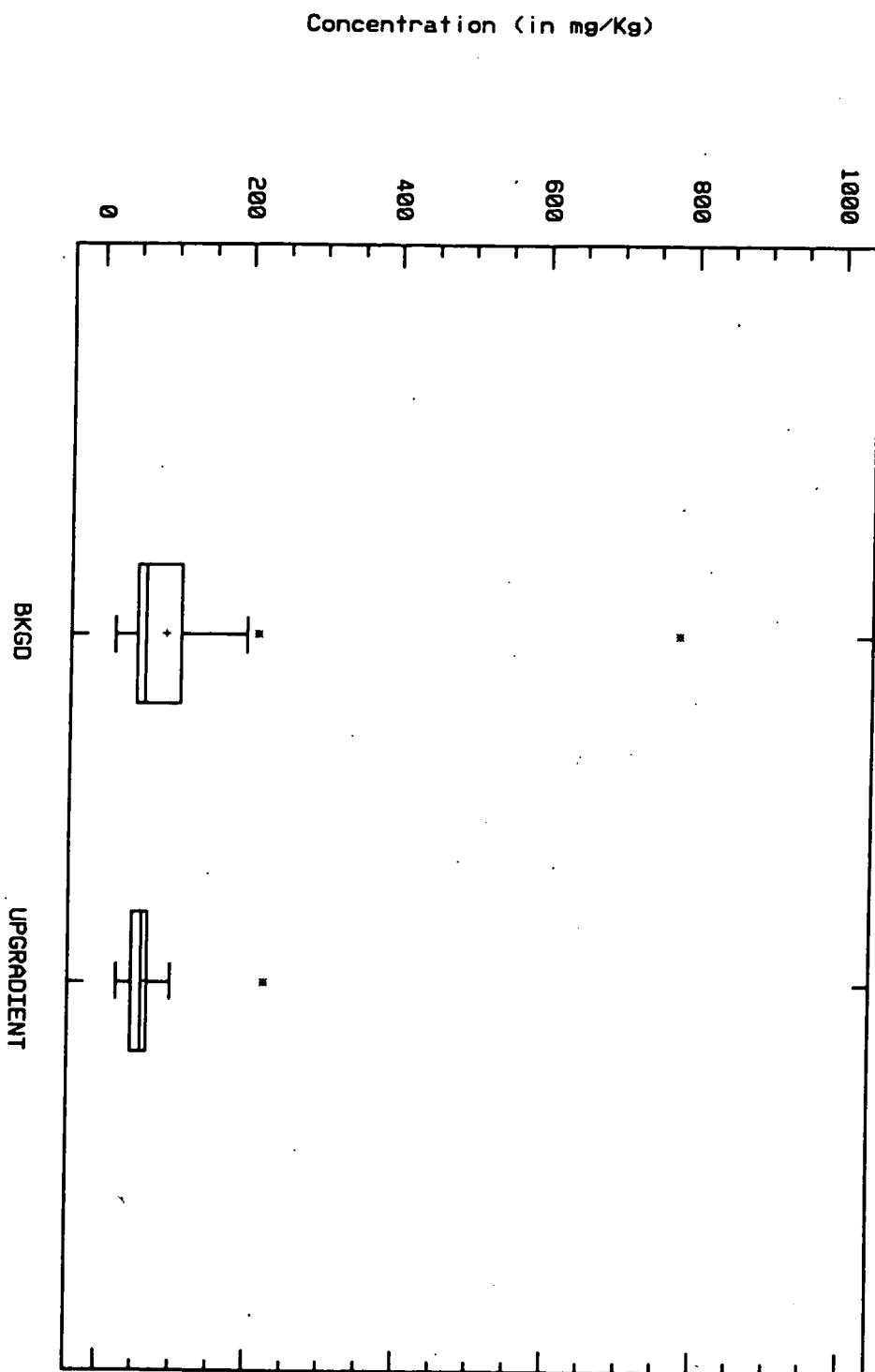


Arsenic: Subsurface Soil

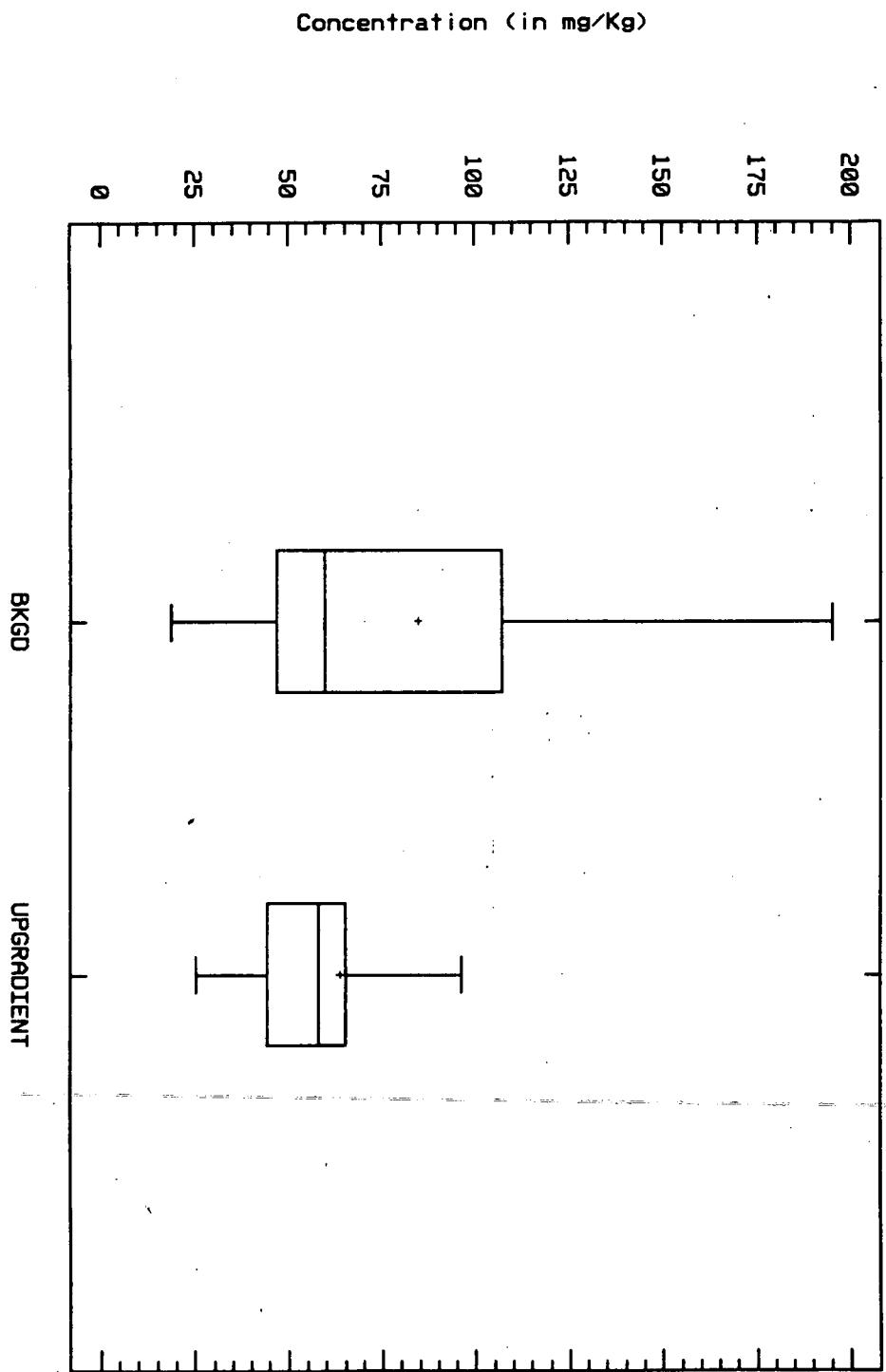
Background Drf vs. 0U7 Upgradient Drf



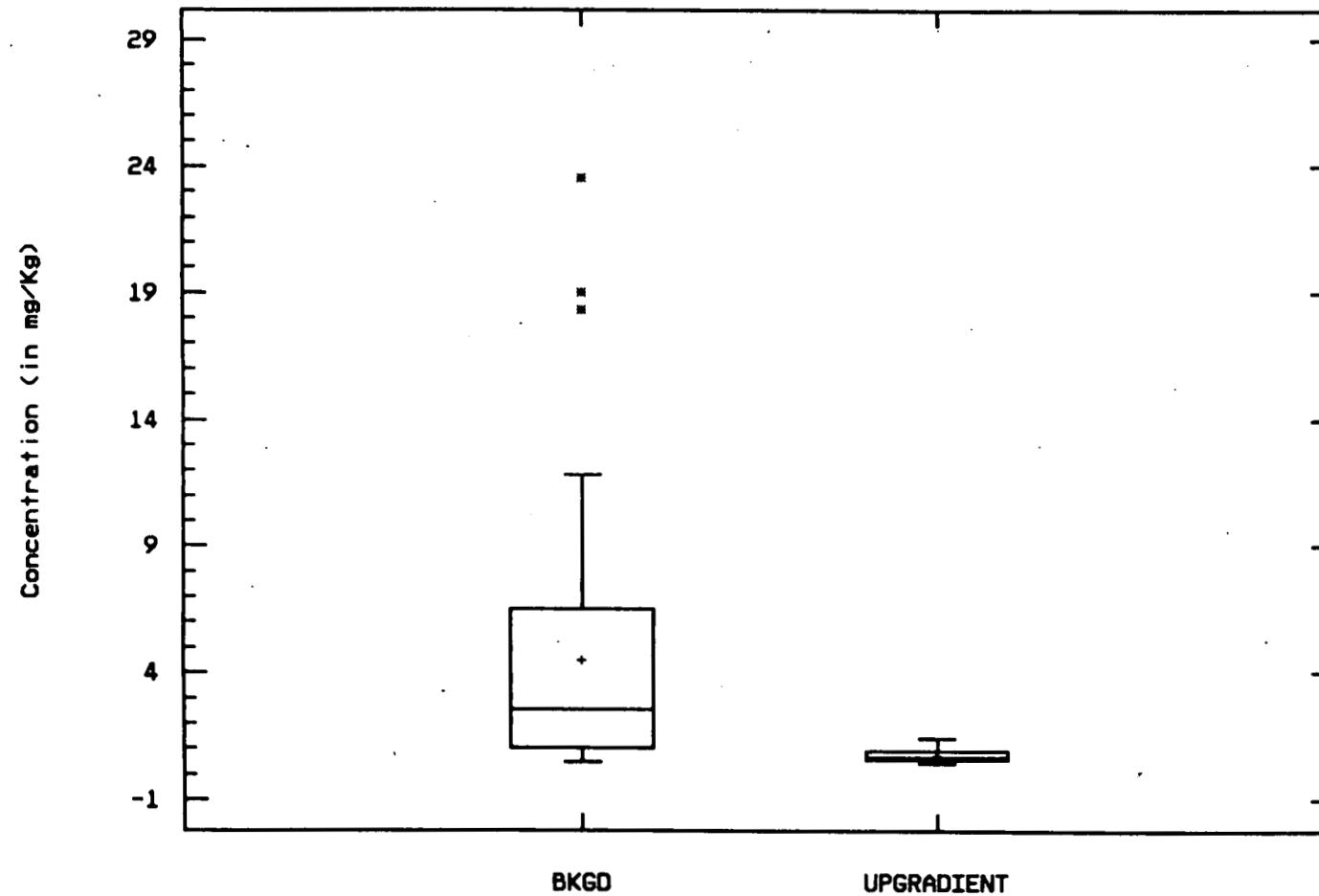
Barium: Subsurface Soil
Background Qrf vs. OJ7 Upgradient Qrf



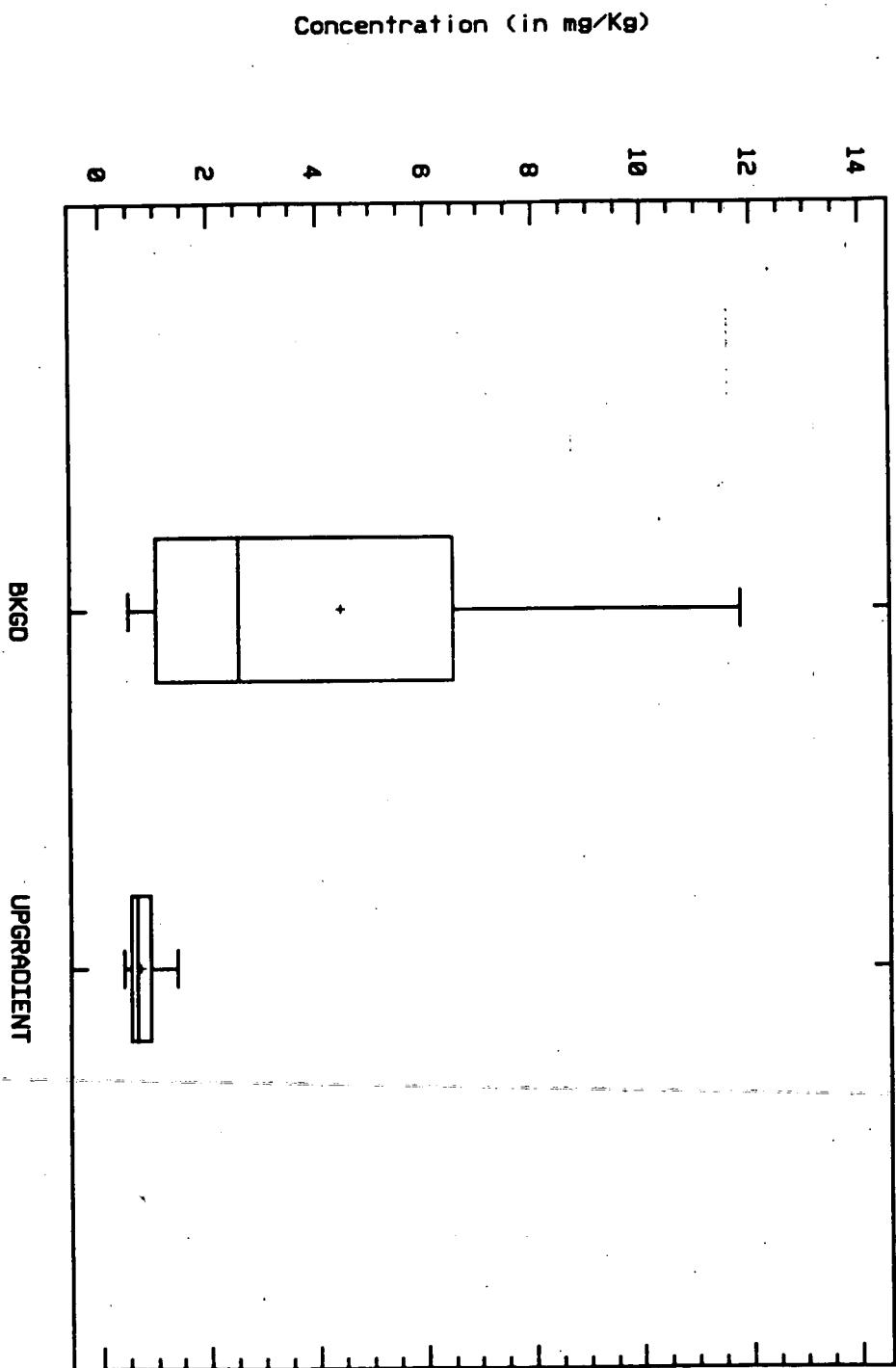
Barium: Subsurface Soil
Background Qrf vs. 0U7 Upgradient Qrf



Beryllium: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf

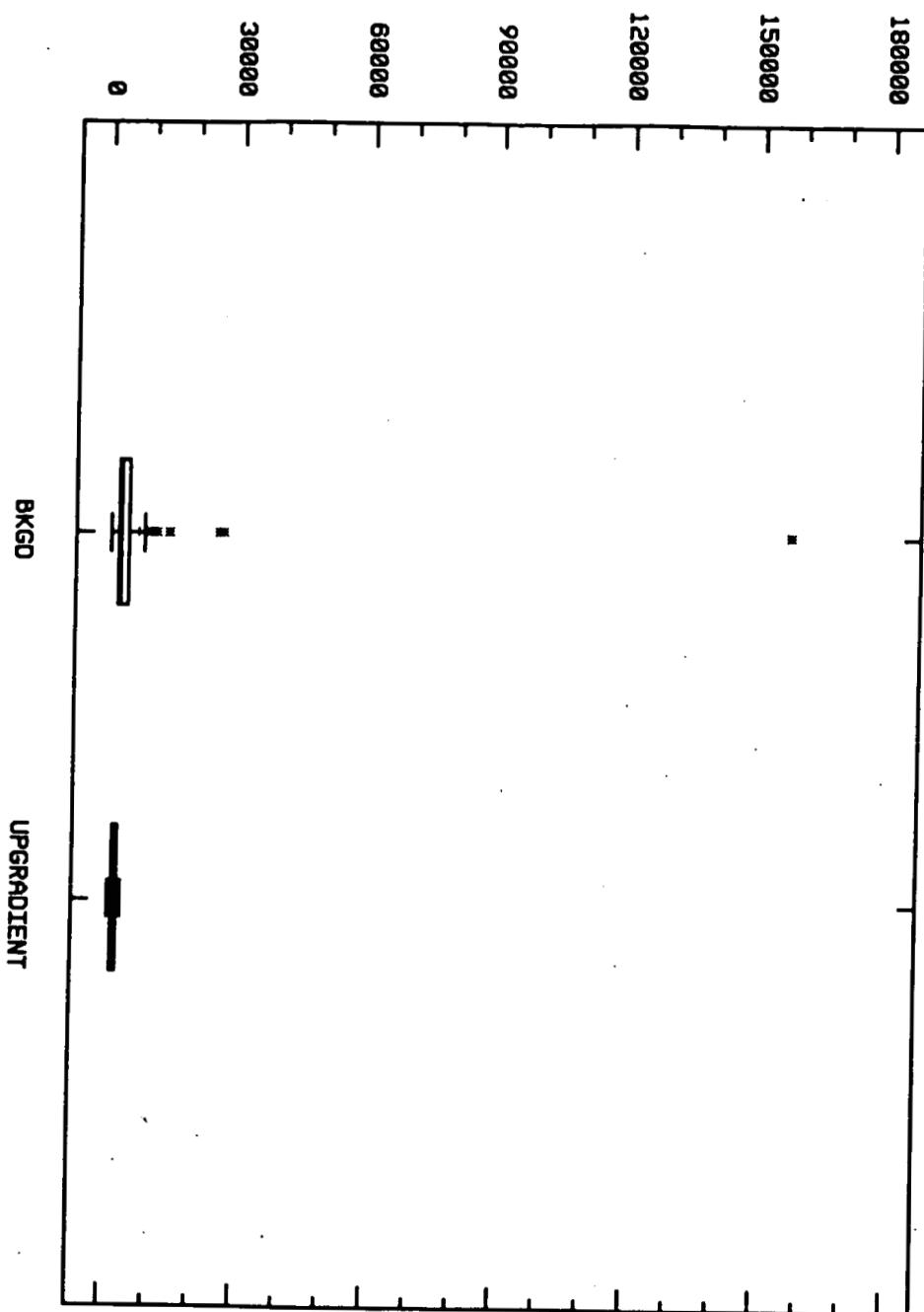


Beryllium: Subsurface Soil
Background Drift vs. OUT Upgradient Drift

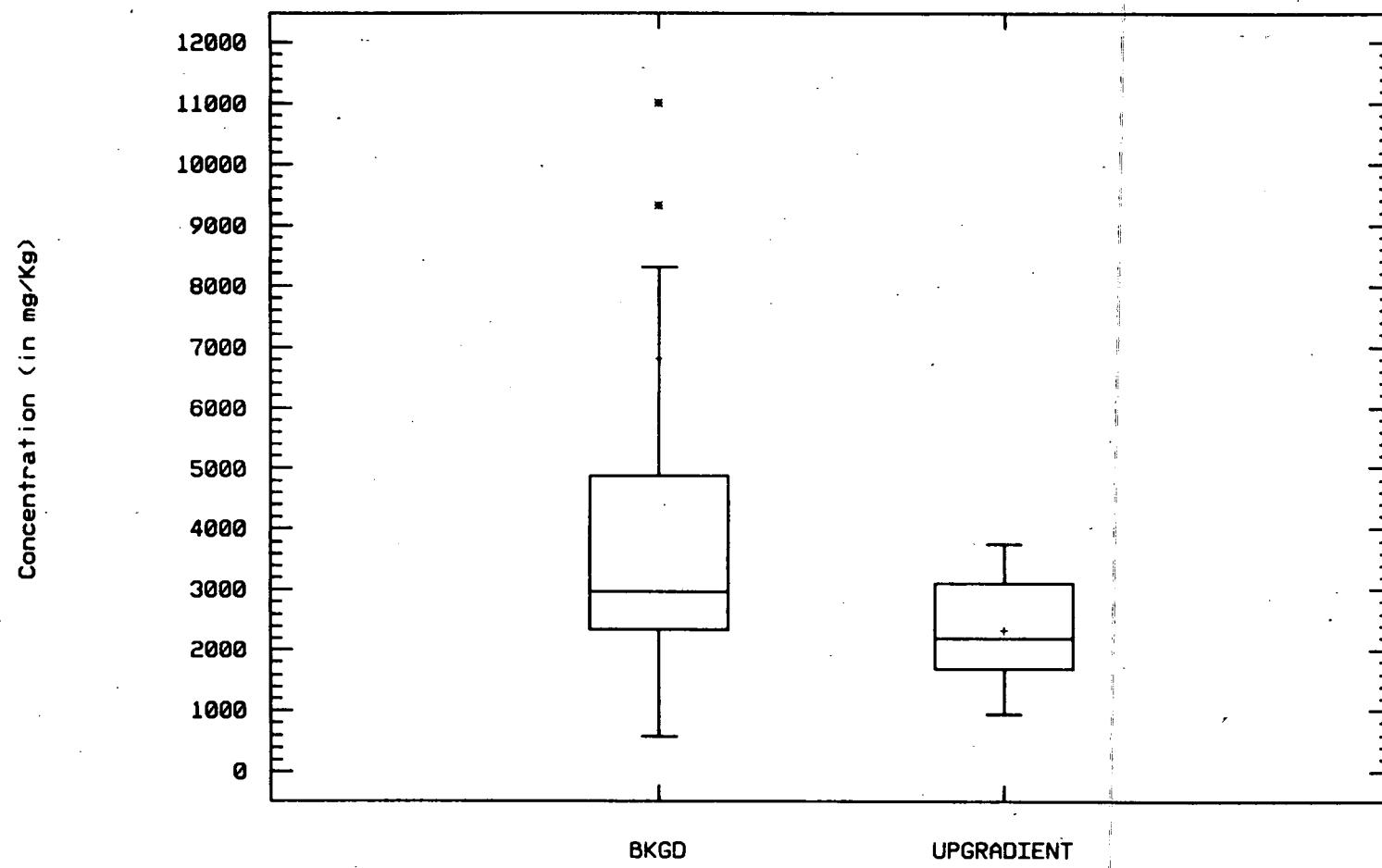


Concentration (in mg/Kg)

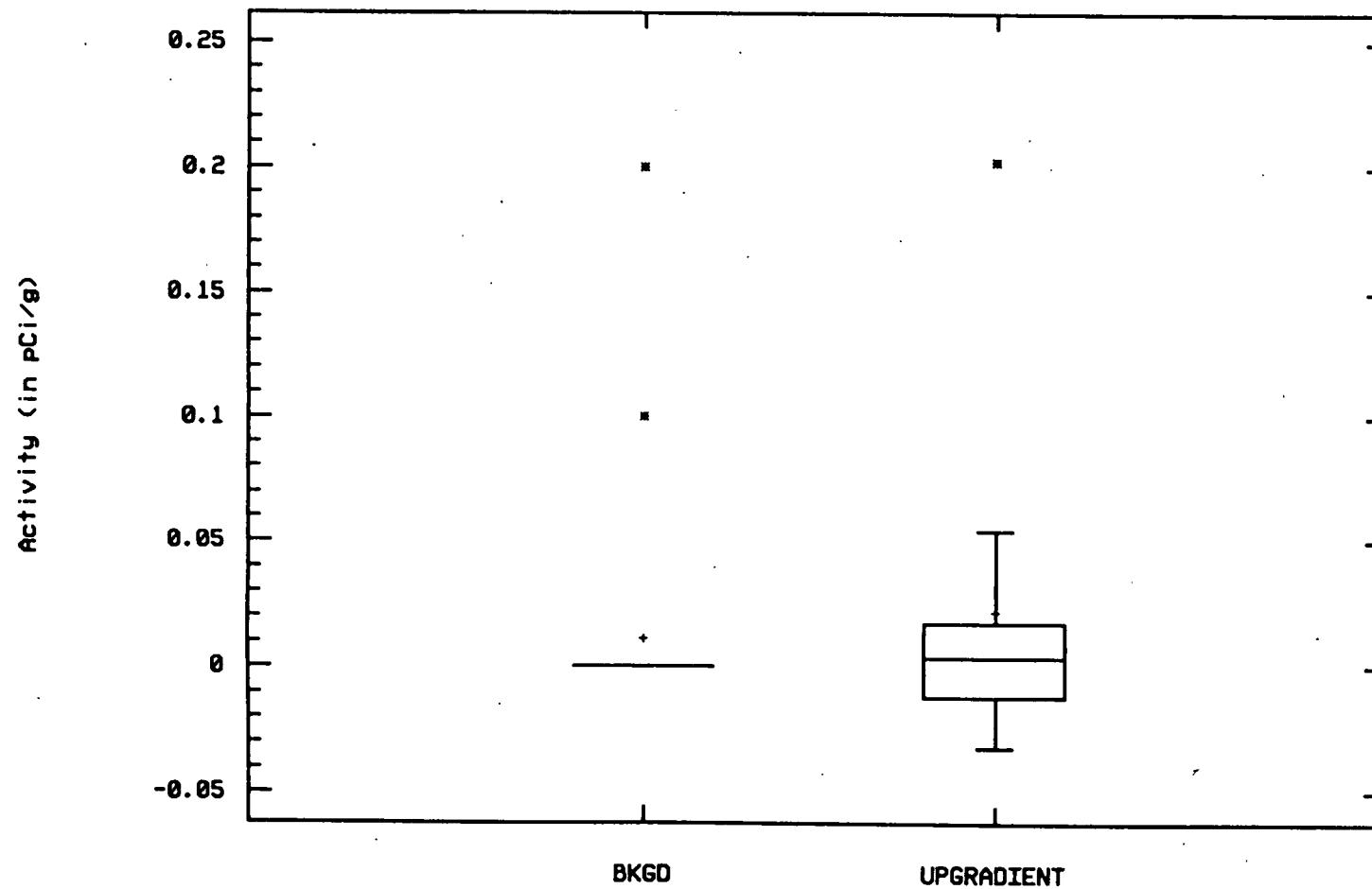
Calcium: Subsurface Soil
Background Drf vs. OUT Upgradient Drf



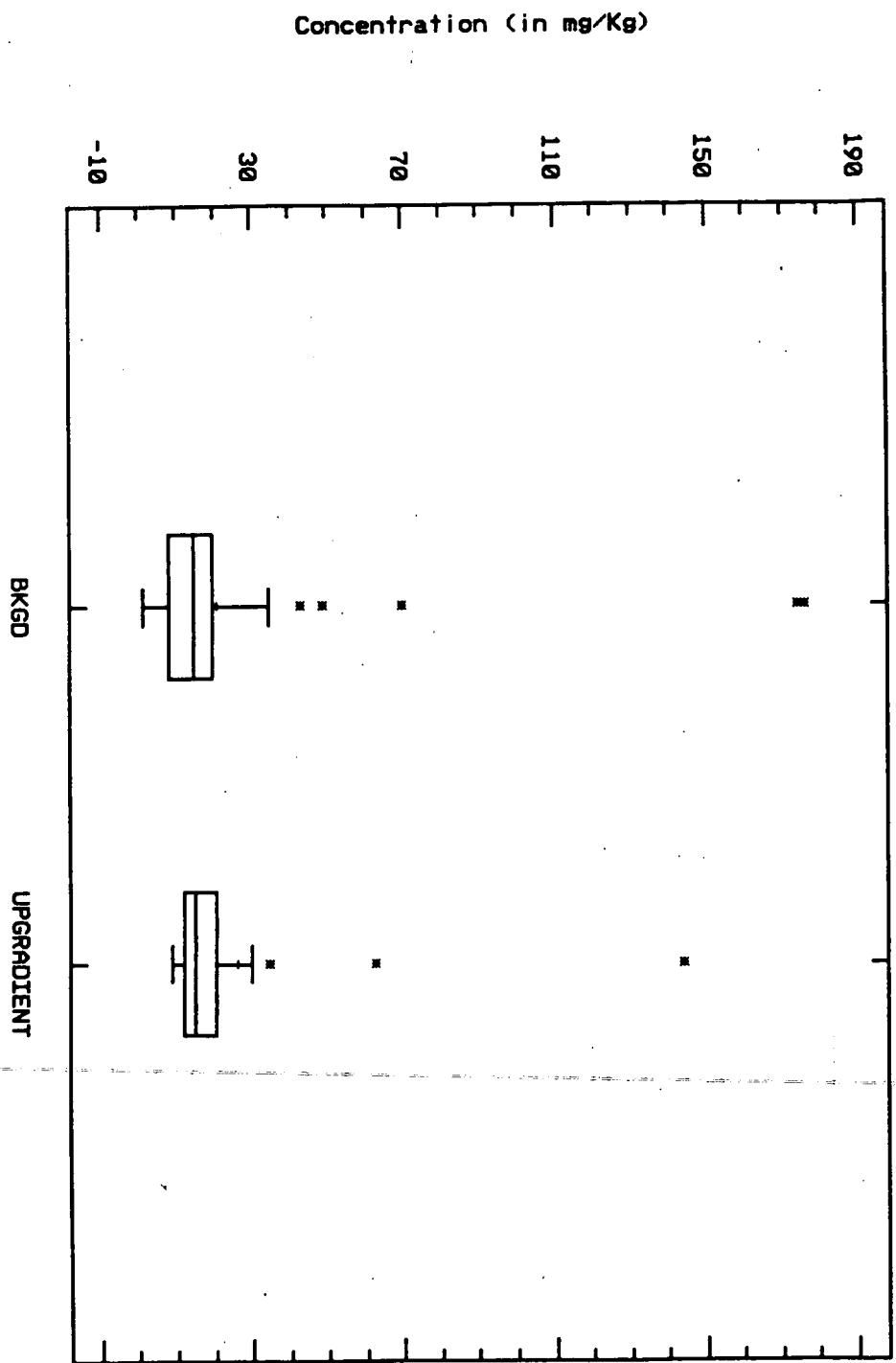
Calcium: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



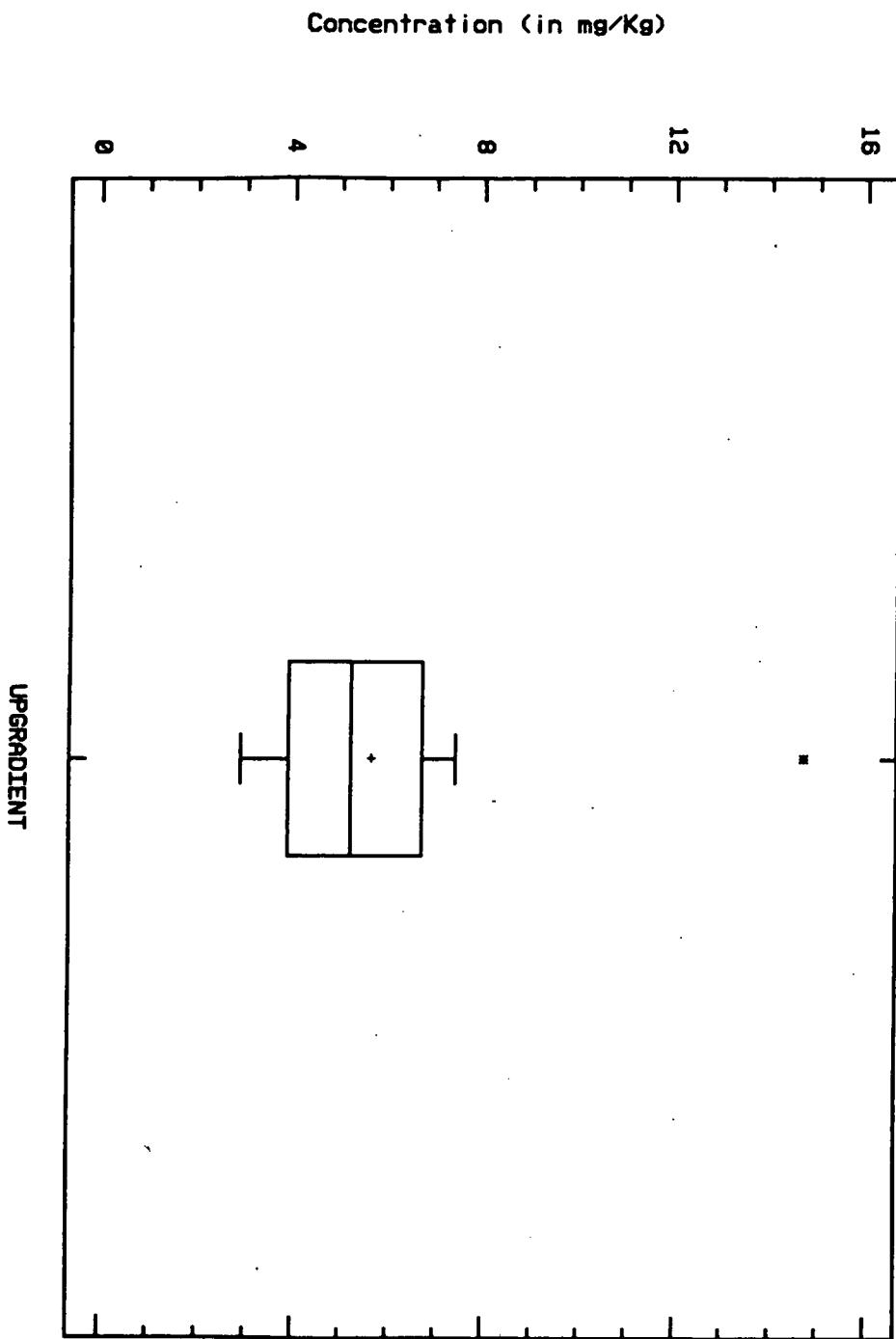
Cesium-137: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



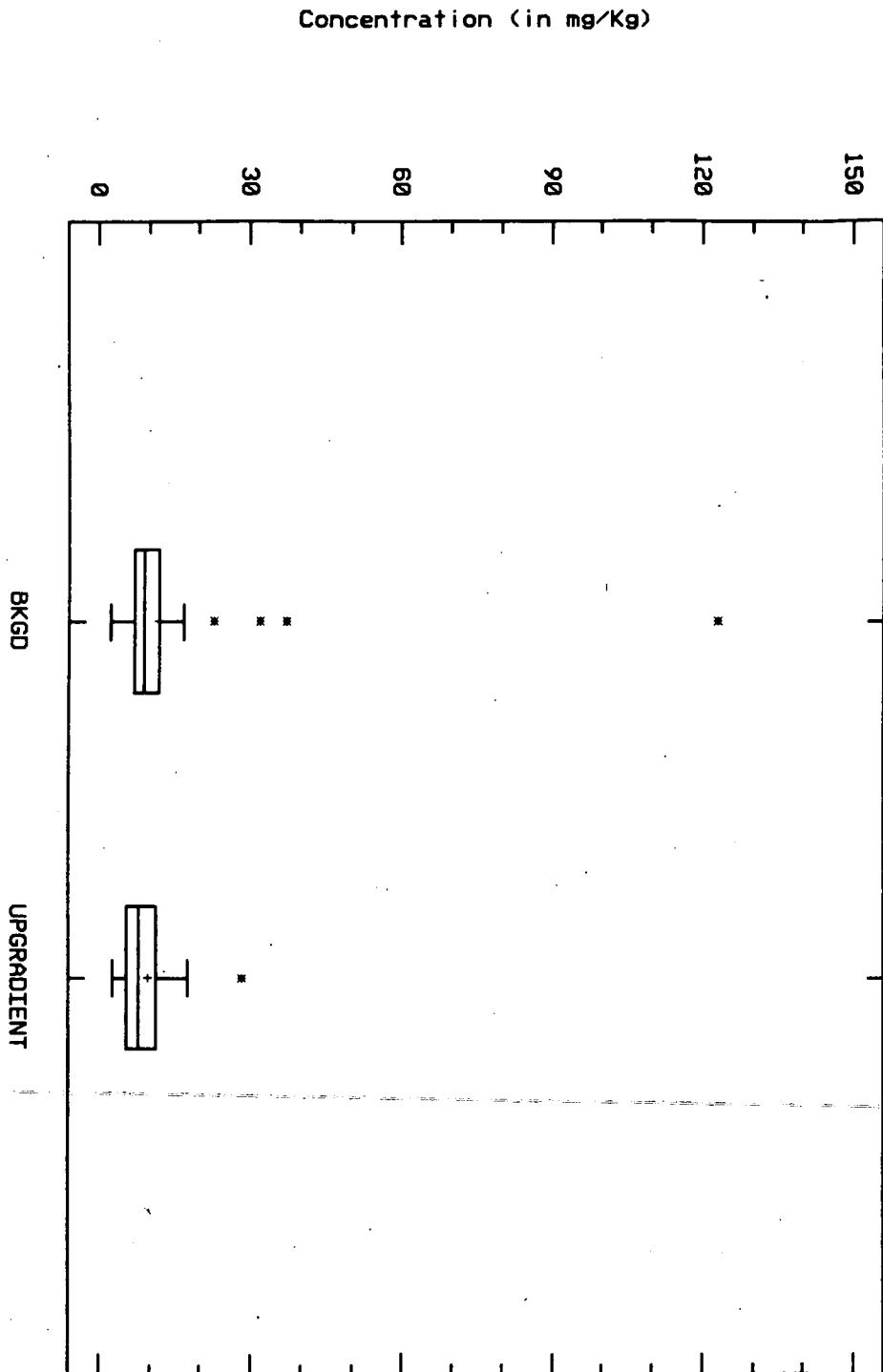
Chromium: Subsurface Soil
Background ΔE vs. 017 Upgradient ΔE



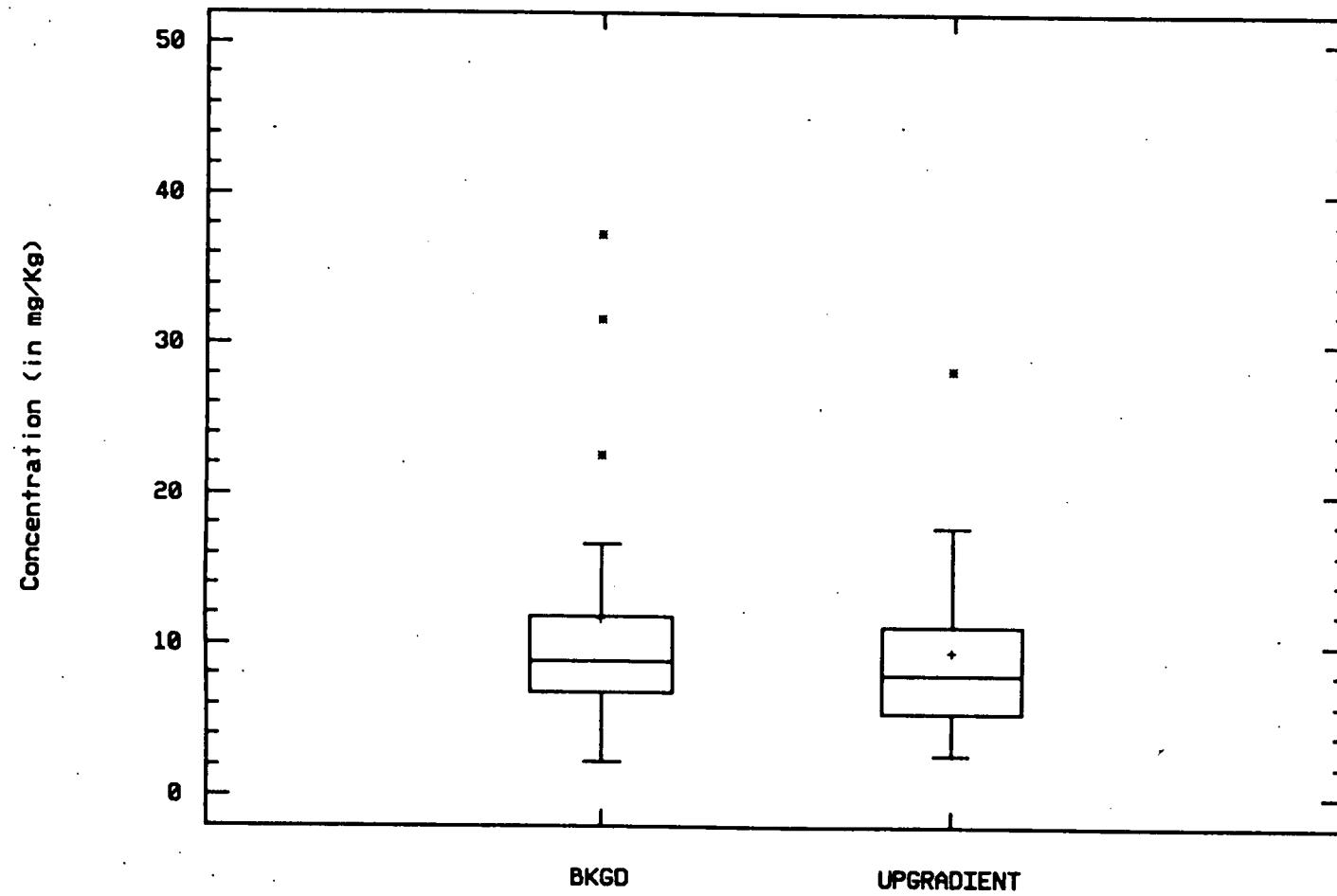
Cobalt: Subsurface Soil
Background Qrf vs. OUT Upgradient Qrf



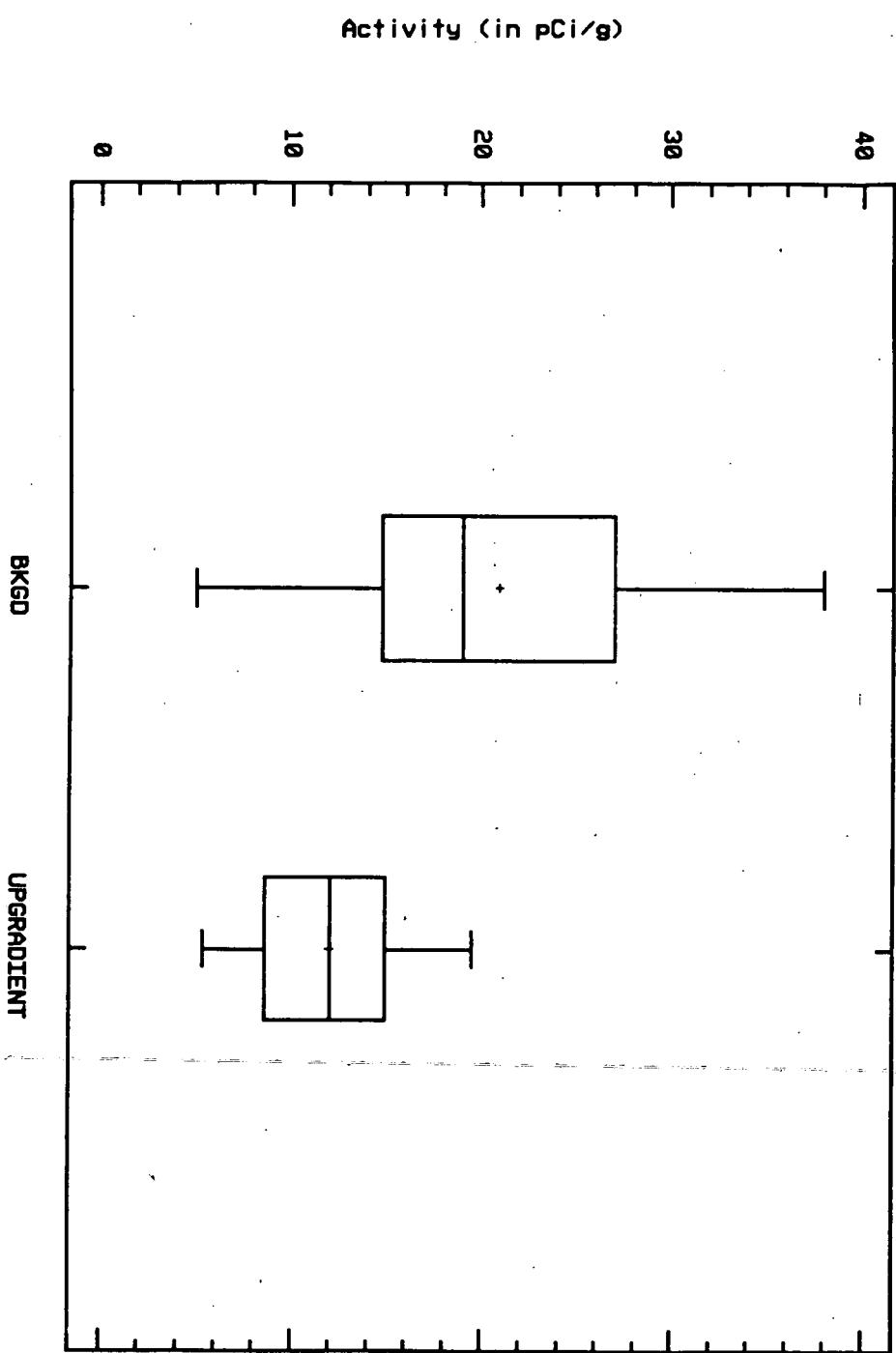
Copper: Subsurface Soil
Background Or-f vs. 0U7 Upgradient Or-f



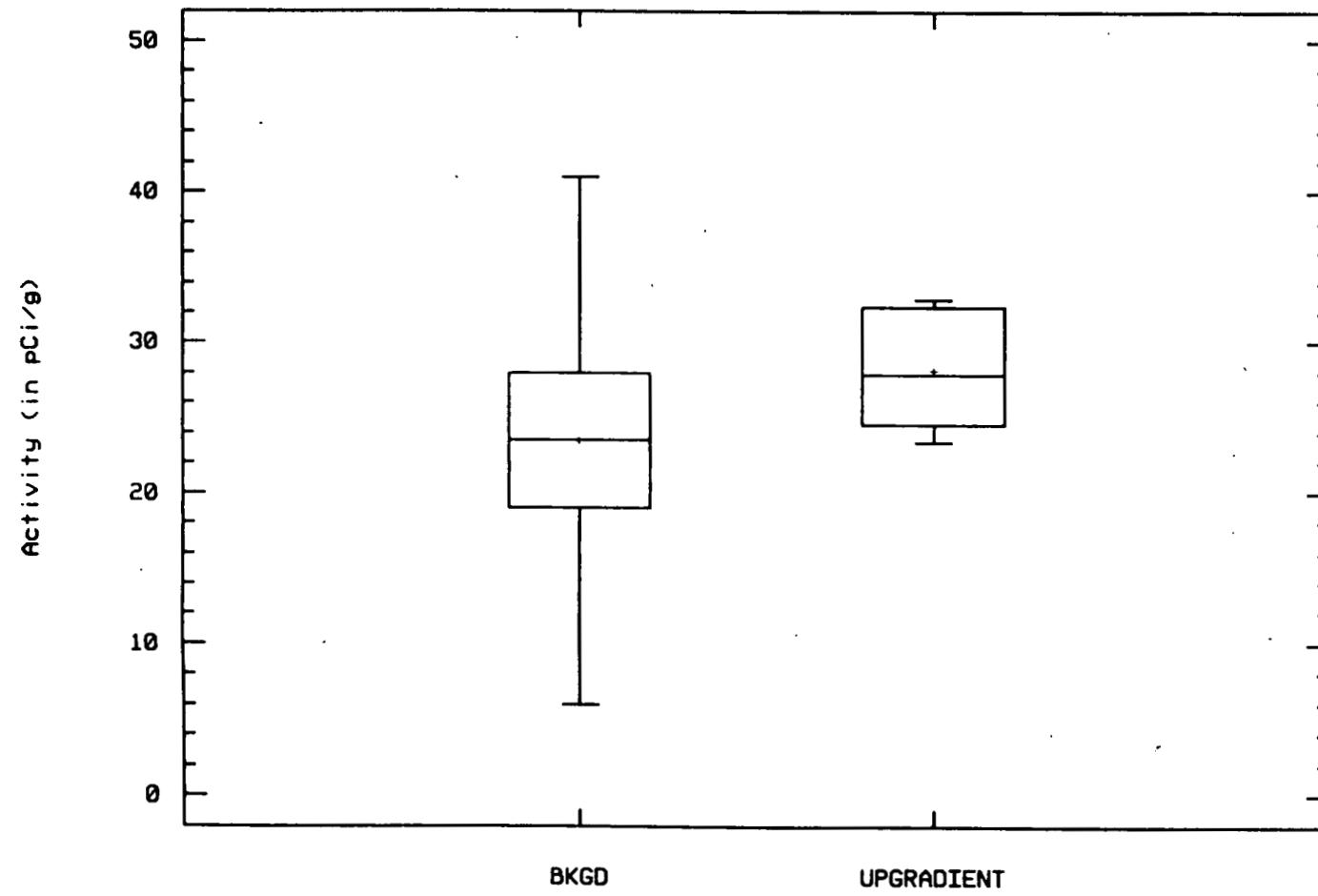
COPPER: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



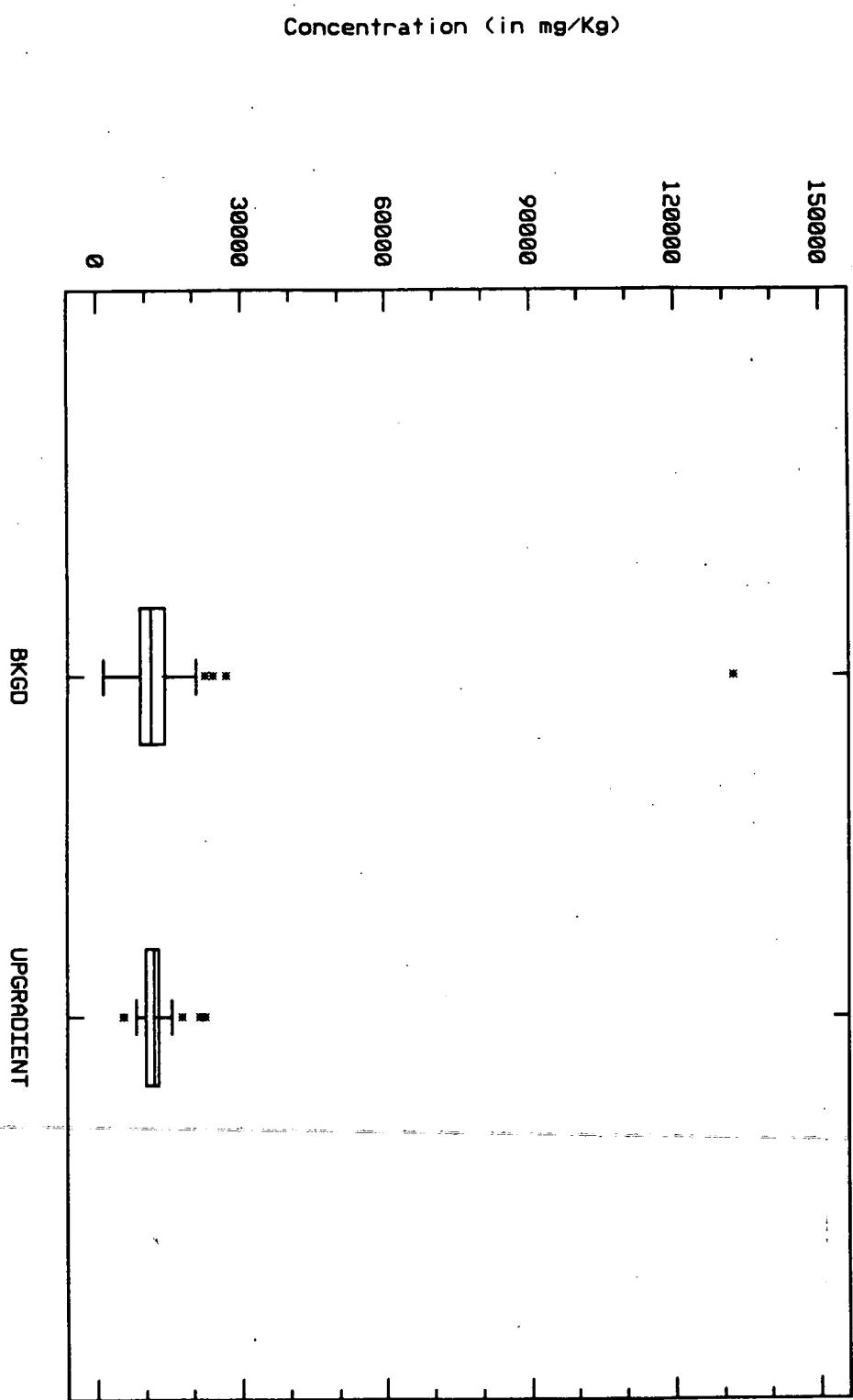
**Gross Alpha: Subsurface Soil
Background Grf vs. DU7 Upgradient Grf**



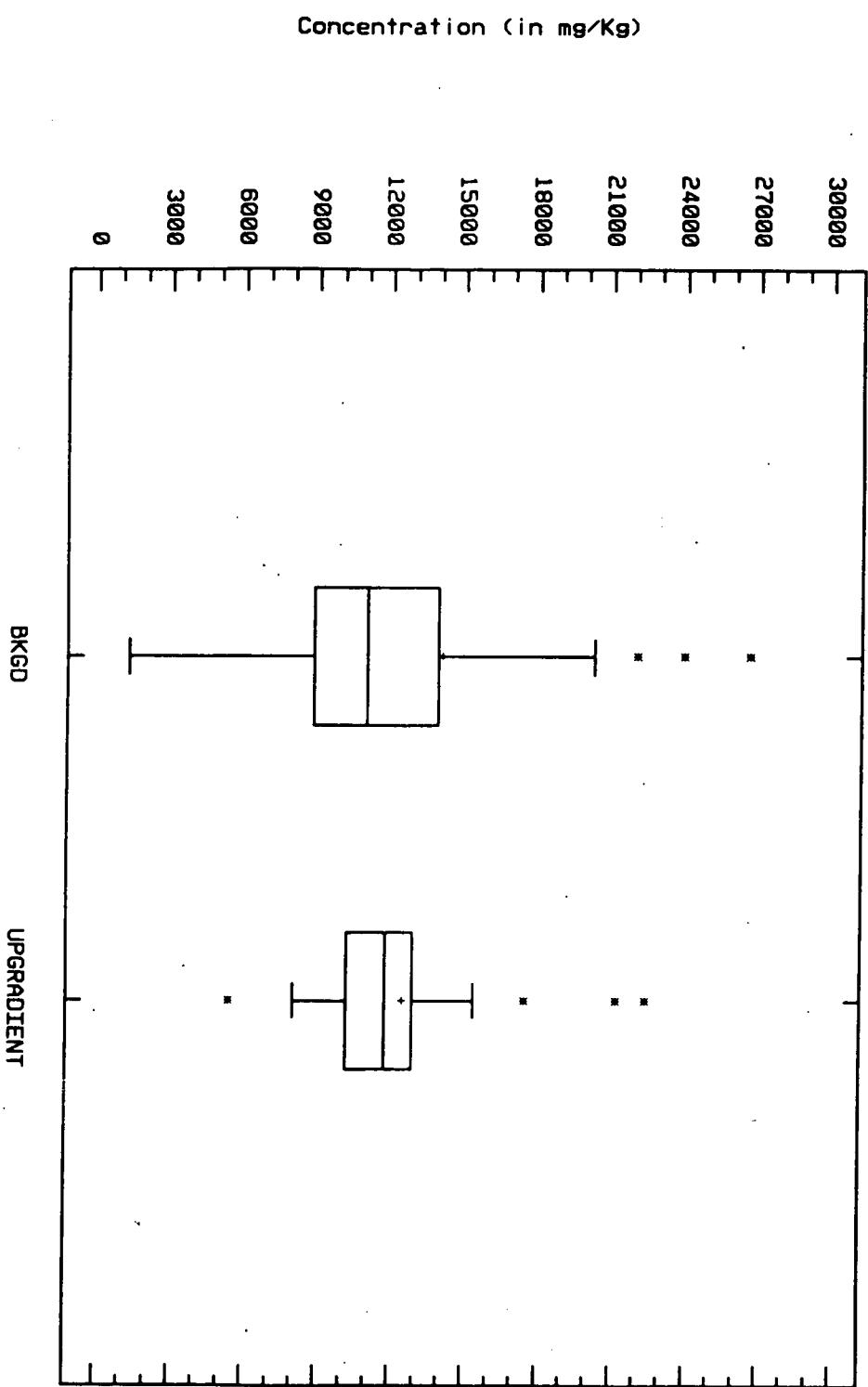
Gross Beta: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



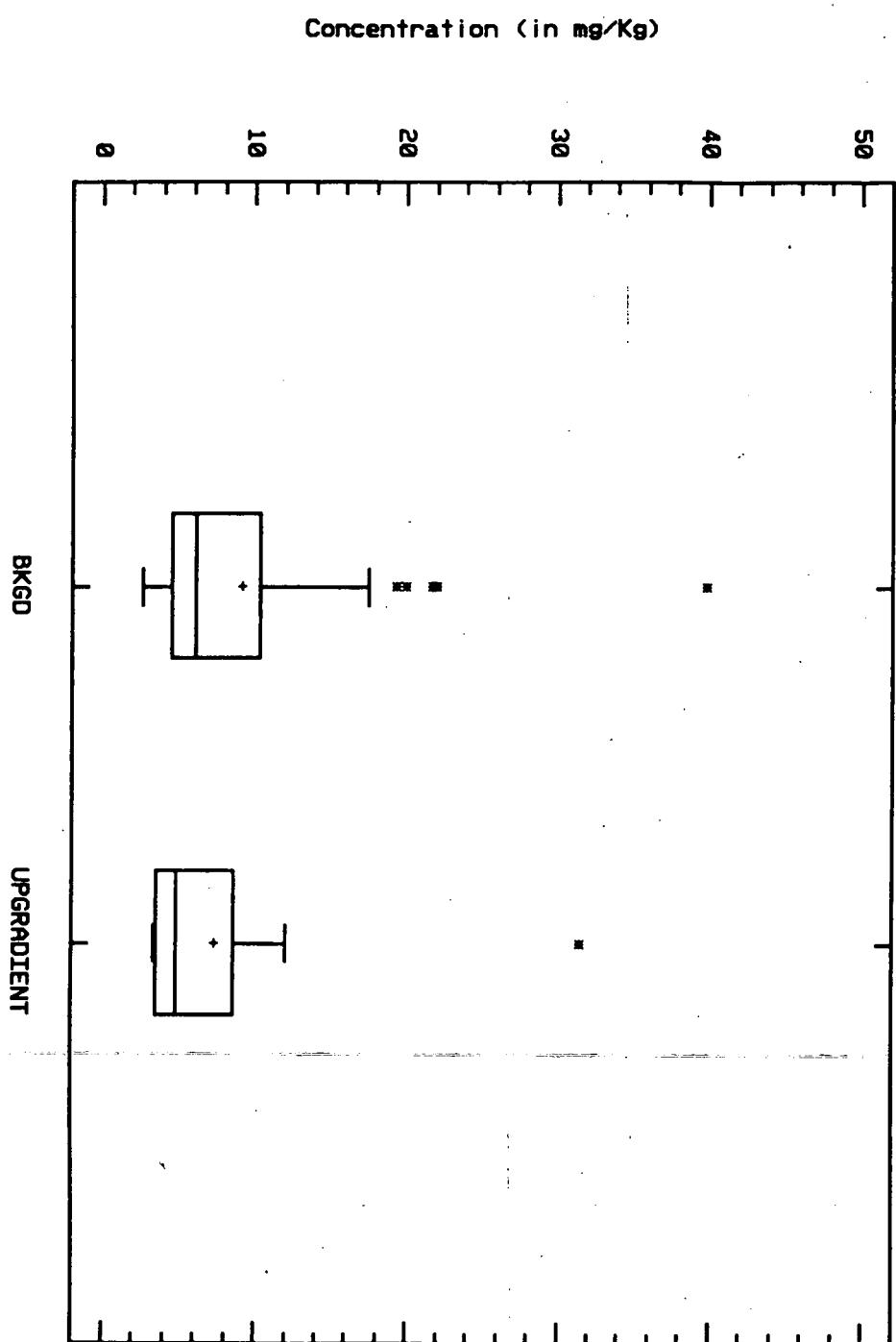
Iron: Subsurface Soil
Background Δr_f vs. OUT Upgradient Δr_f



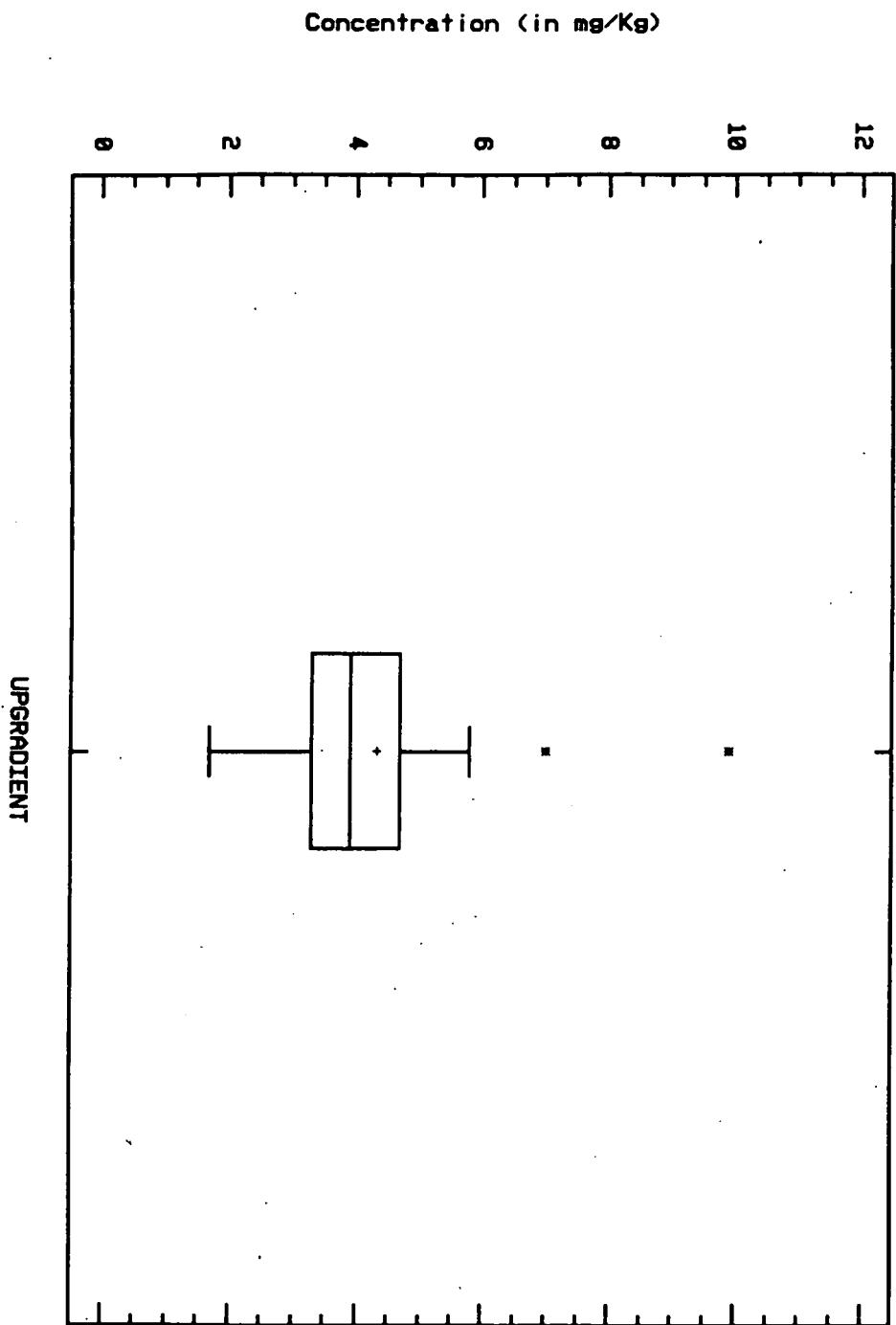
Iron: Subsurface Soil
Background Qrf vs. OUT Upgradient Qrf



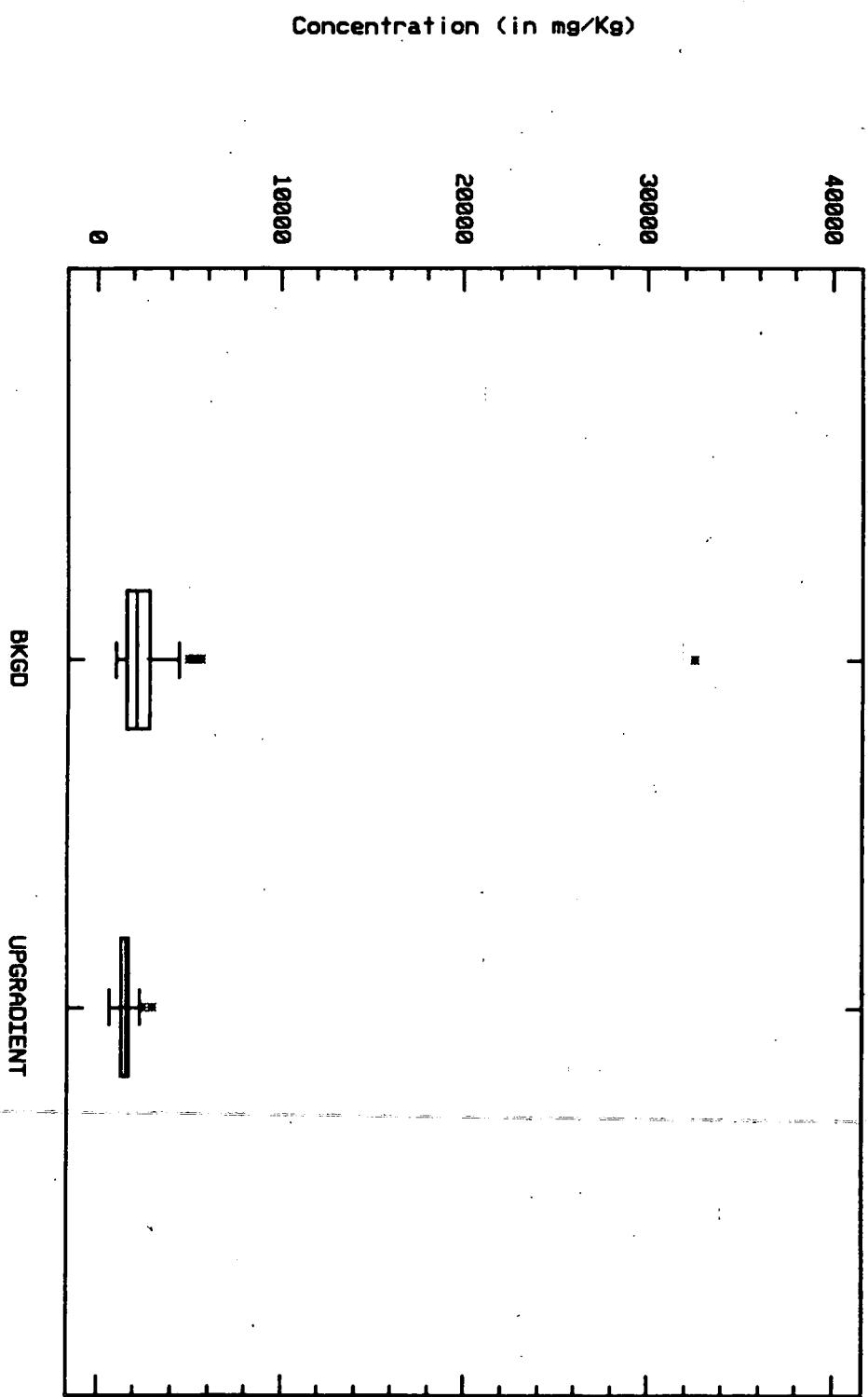
Lead: Subsurface Soil
Background Crf vs. OUT Upgradient Crf



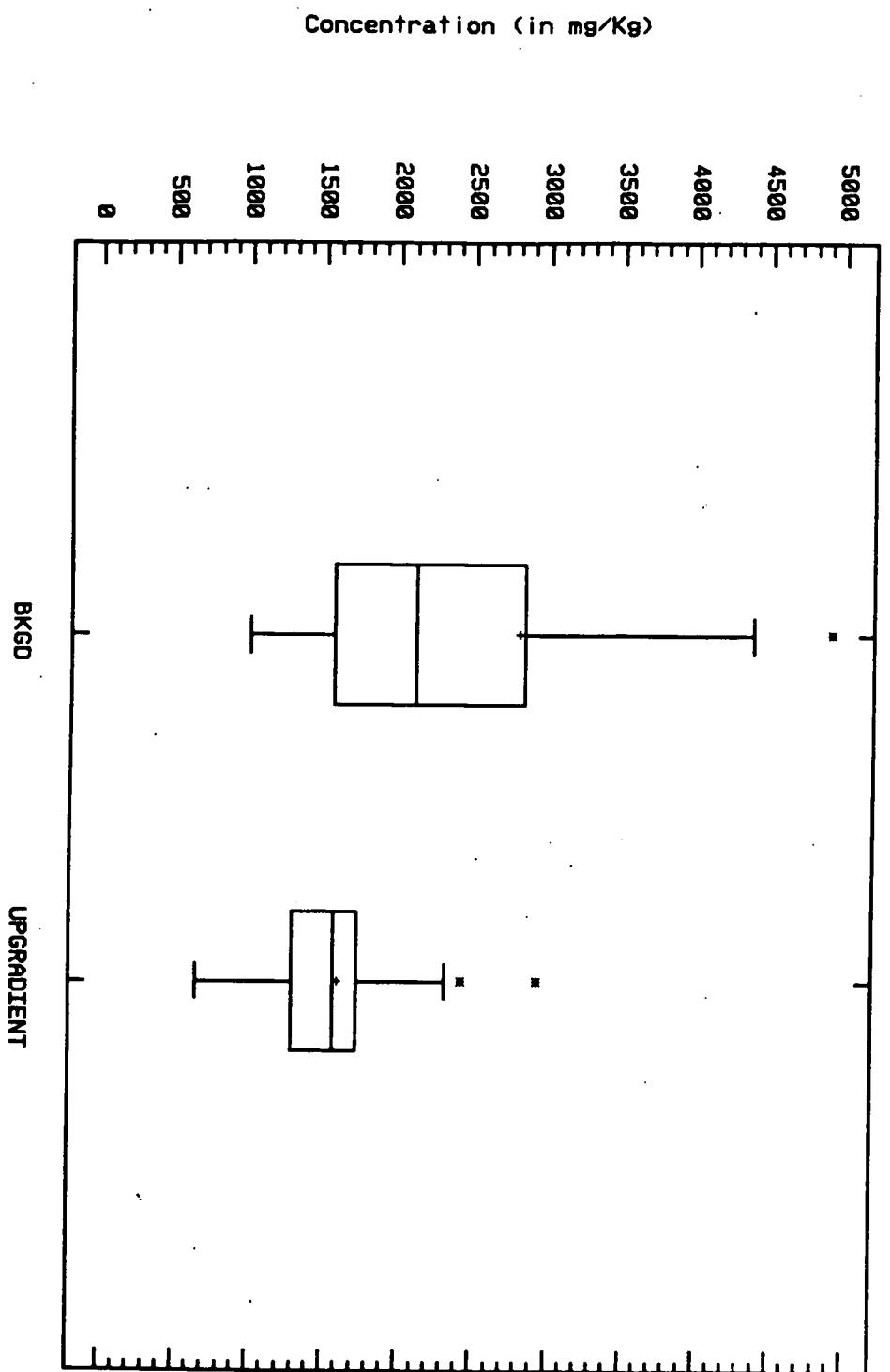
Lithium: Subsurface Soil
Background Crf vs. OUT Upgradient Crf



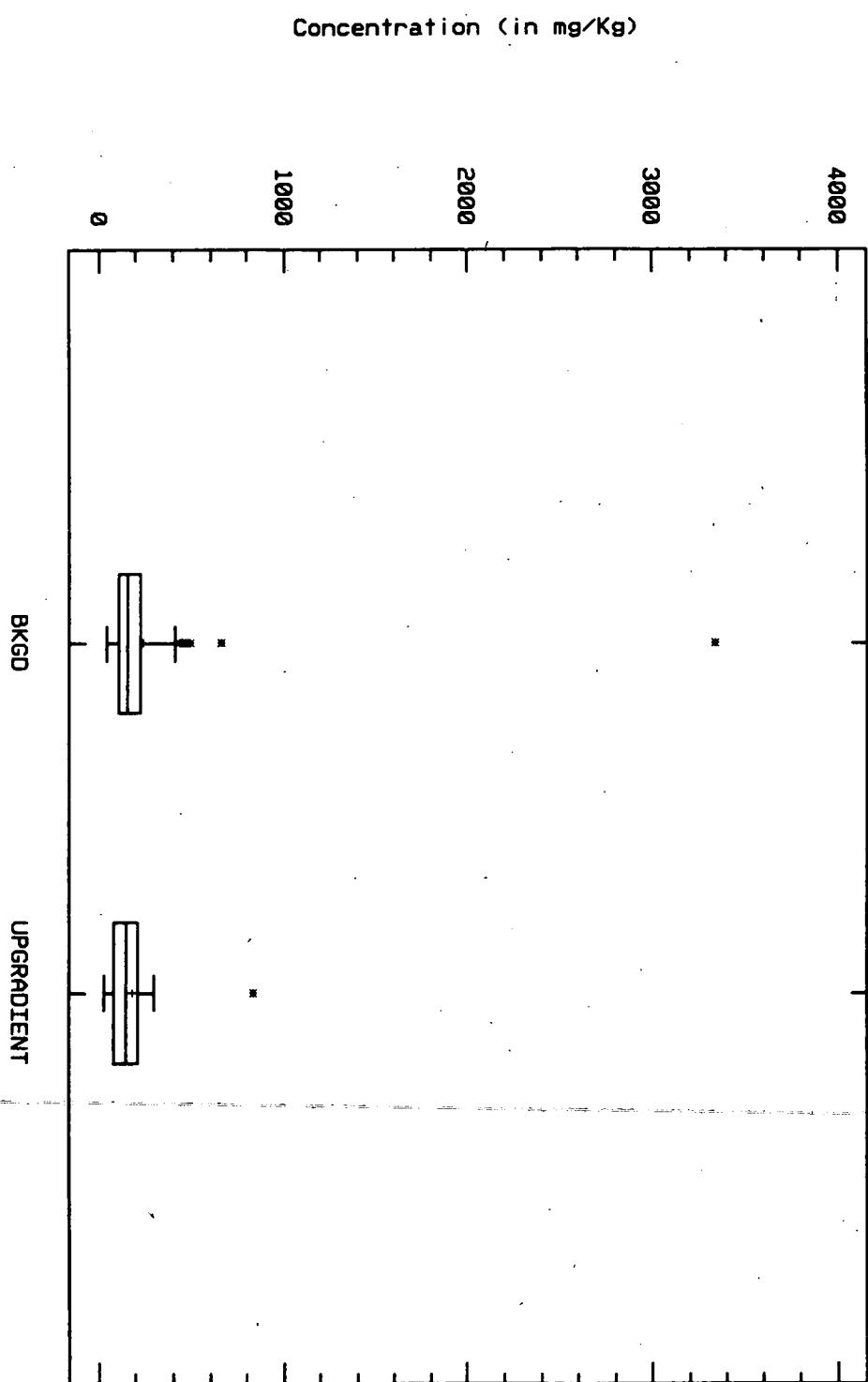
Magnesium: Subsurface Soil
Background Qrf vs. 0U7 Upgradient Qrf



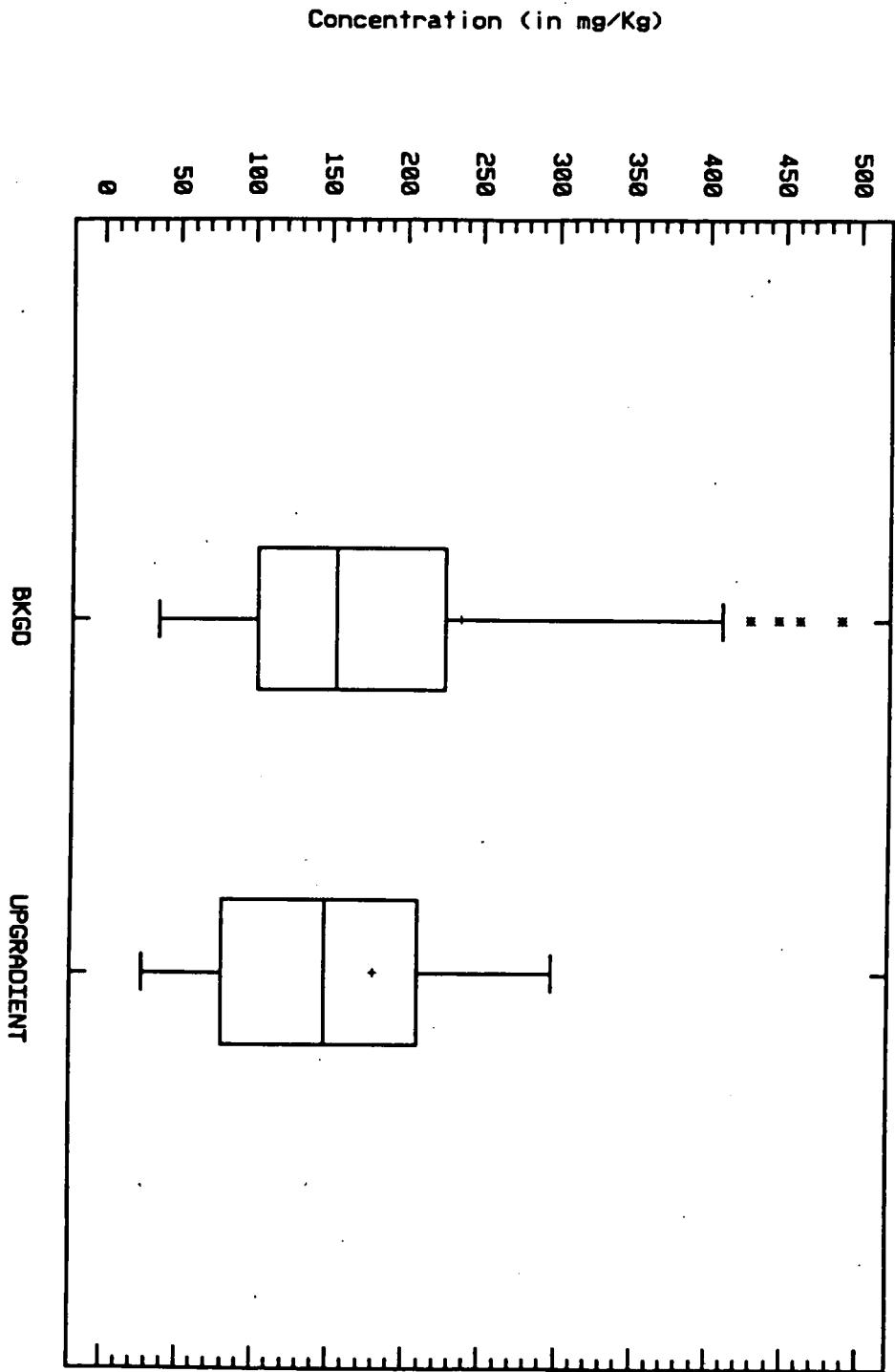
Magnesium: Subsurface Soil
Background Mg-f vs. D17 Upgradient Mg-f



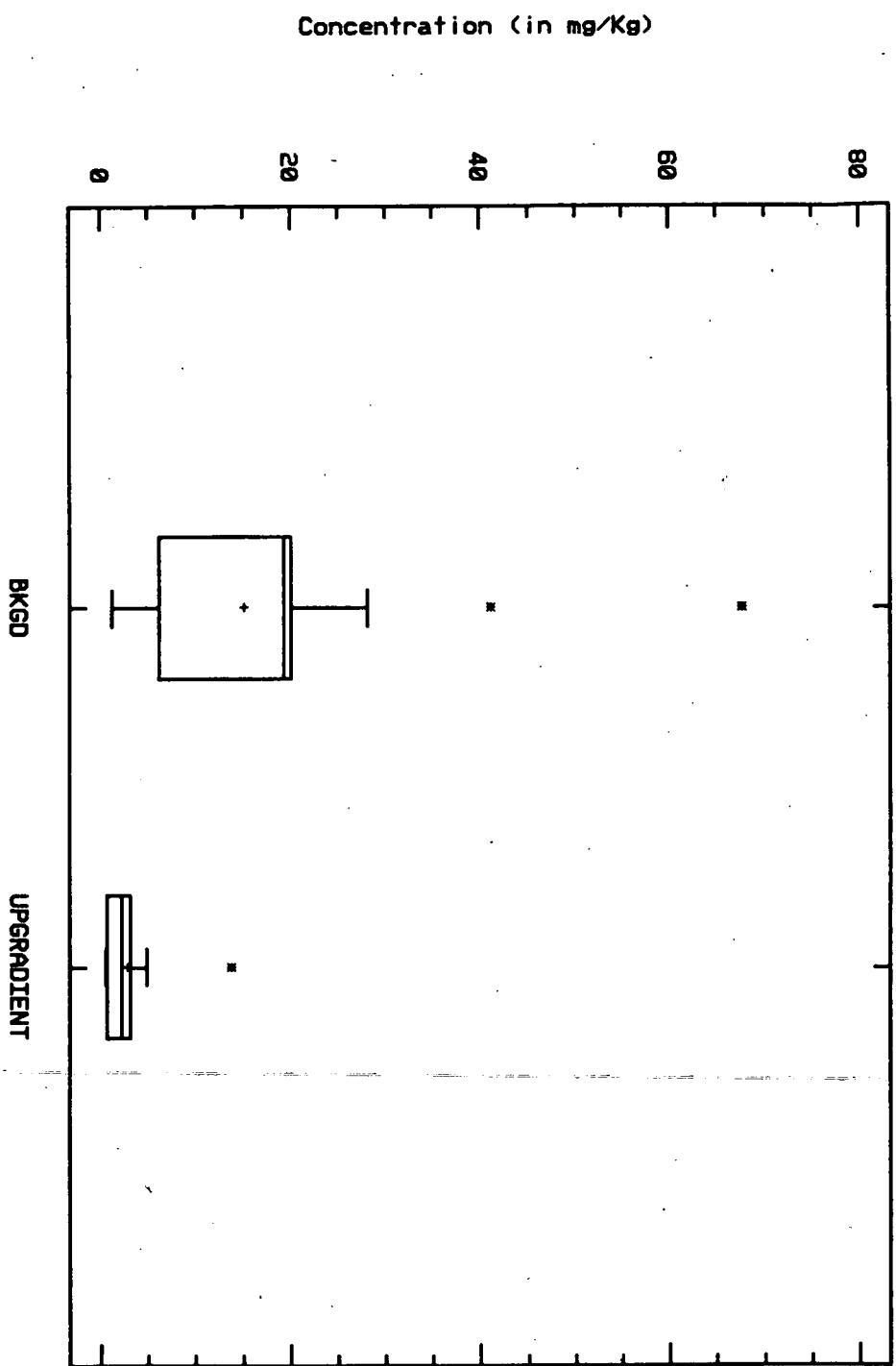
Manganese: Subsurface Soil
Background Or-f vs. OU7 Upgradient Or-f



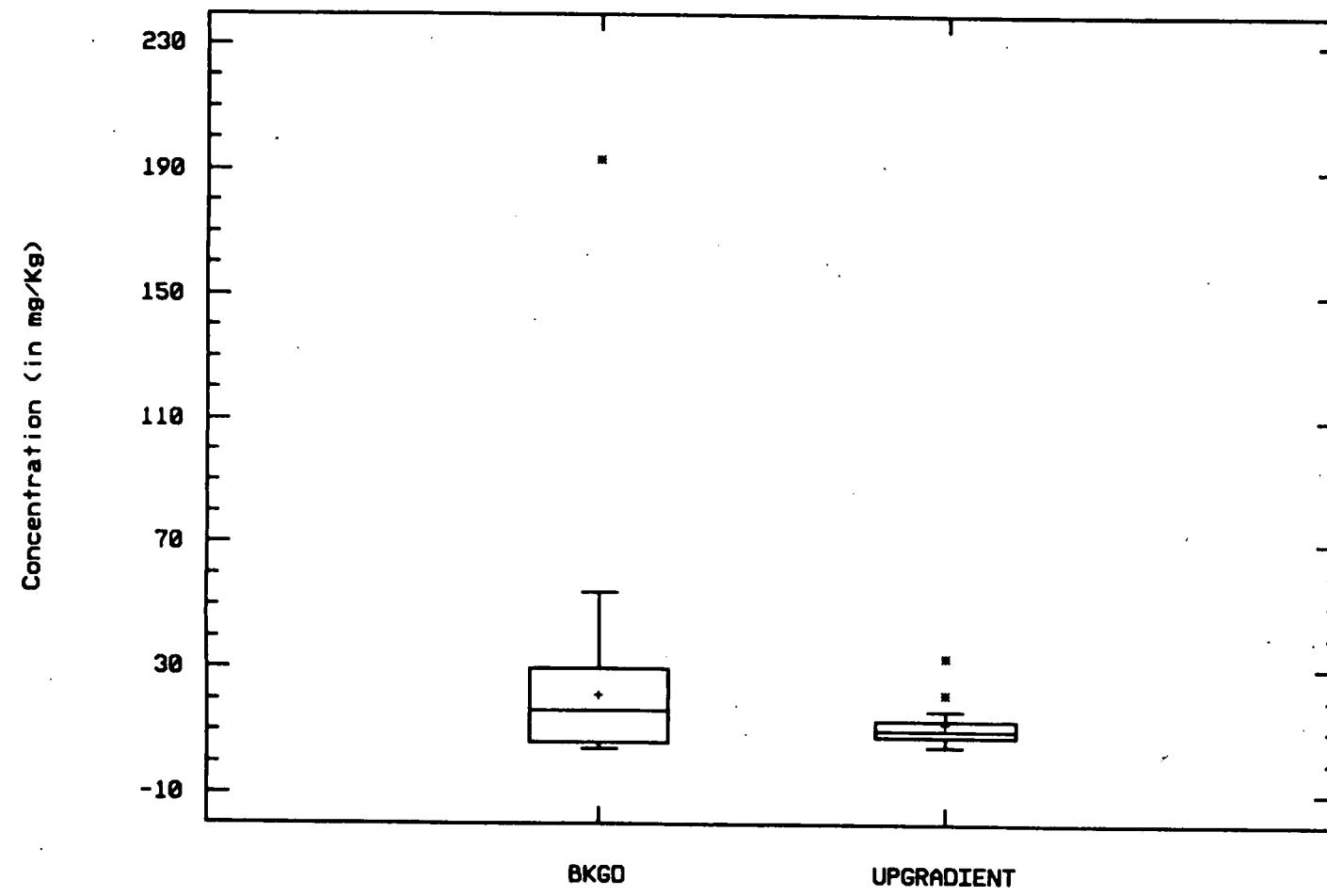
Manganese: Subsurface Soil
Background Orf vs. OUT Upgradient Orf



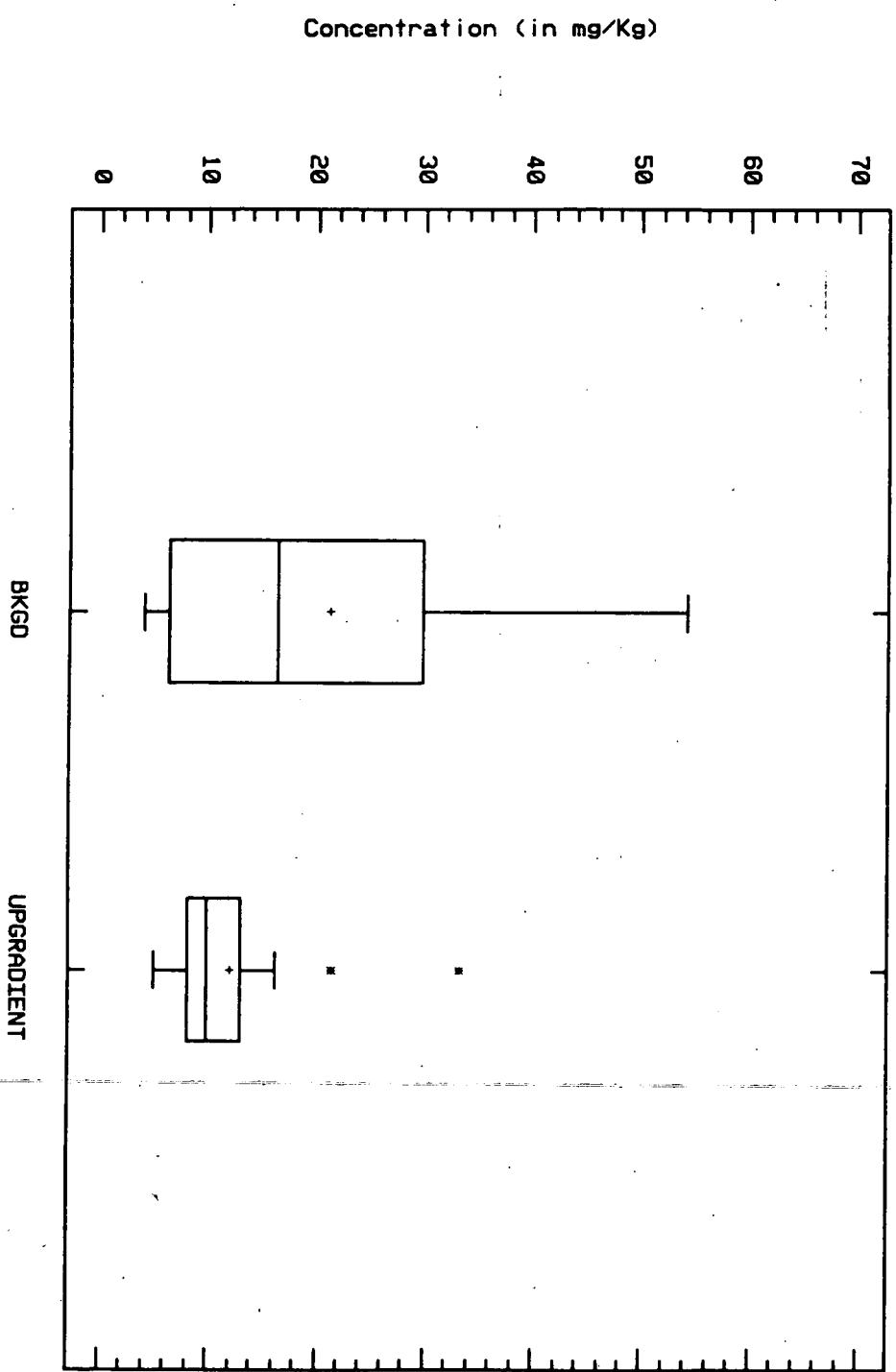
Mo lybdenum: Subsurface Soil
Background Crf vs. OUT Upgradient Crf



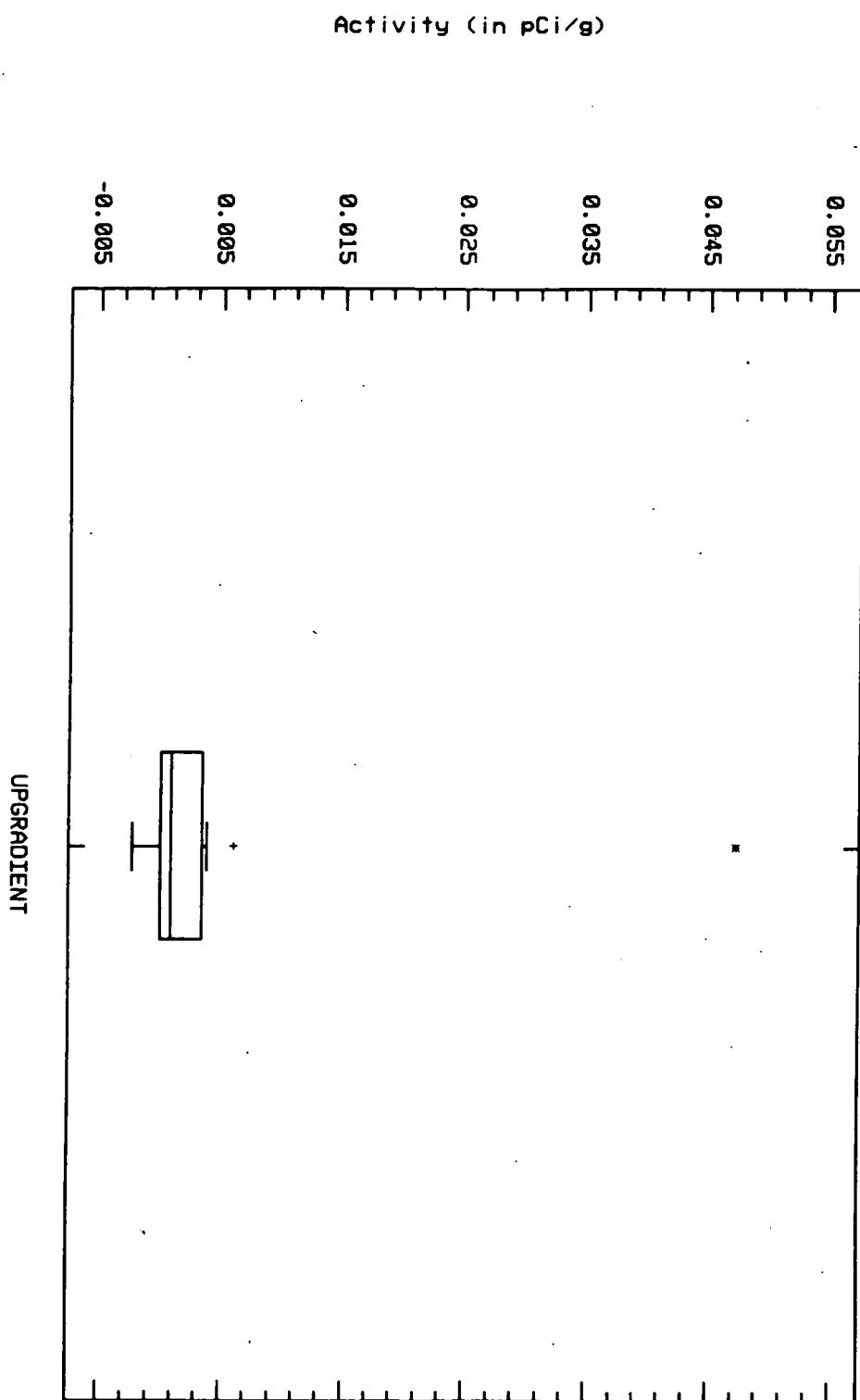
Nickel: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



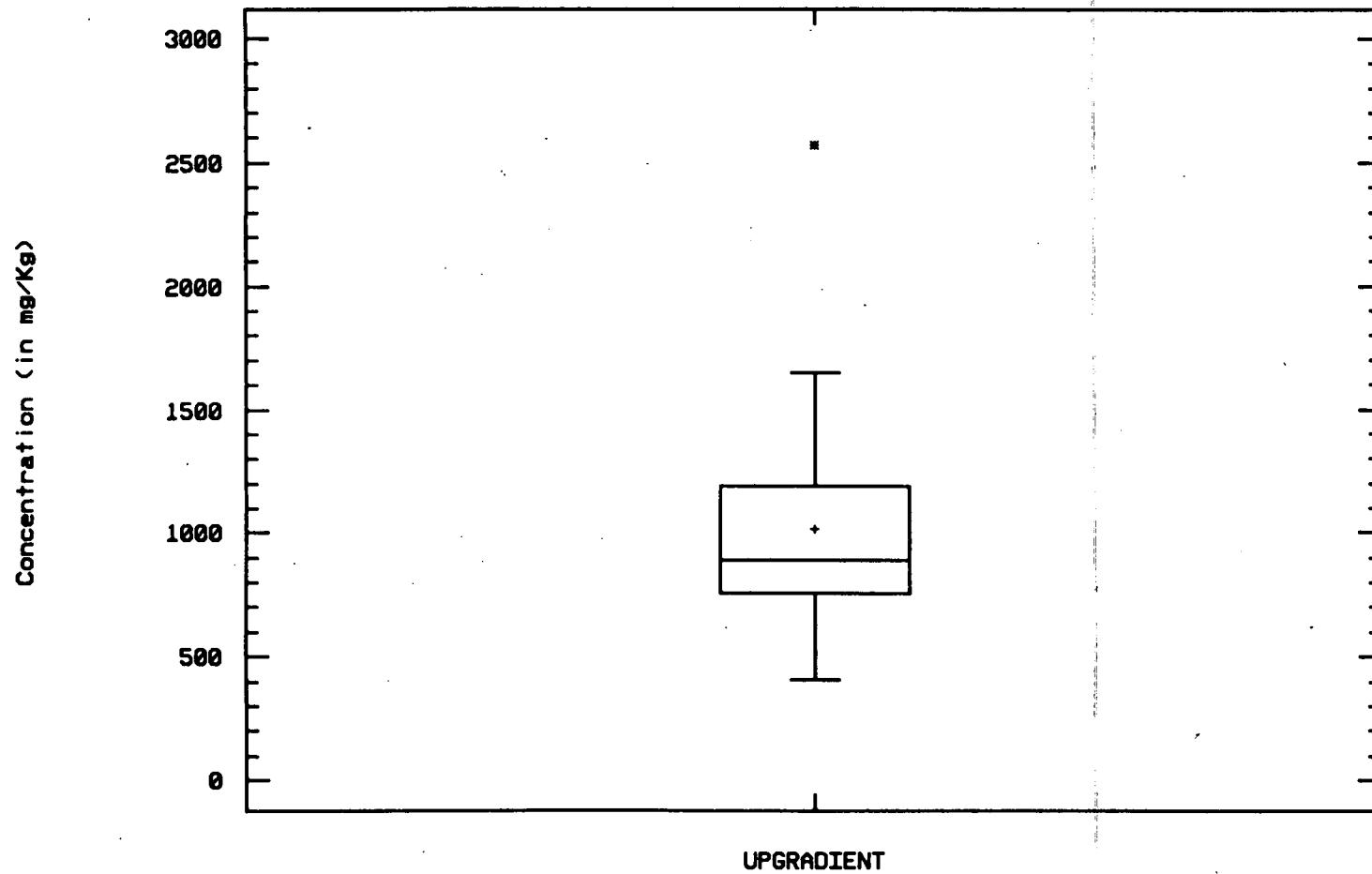
Nickel: Subsurface Soil
Background Grf vs. OUT Upgradient Grf



Plutonium-239,240: Subsurface Soil
Background Qrf vs. DU7 Upgradient Qrf

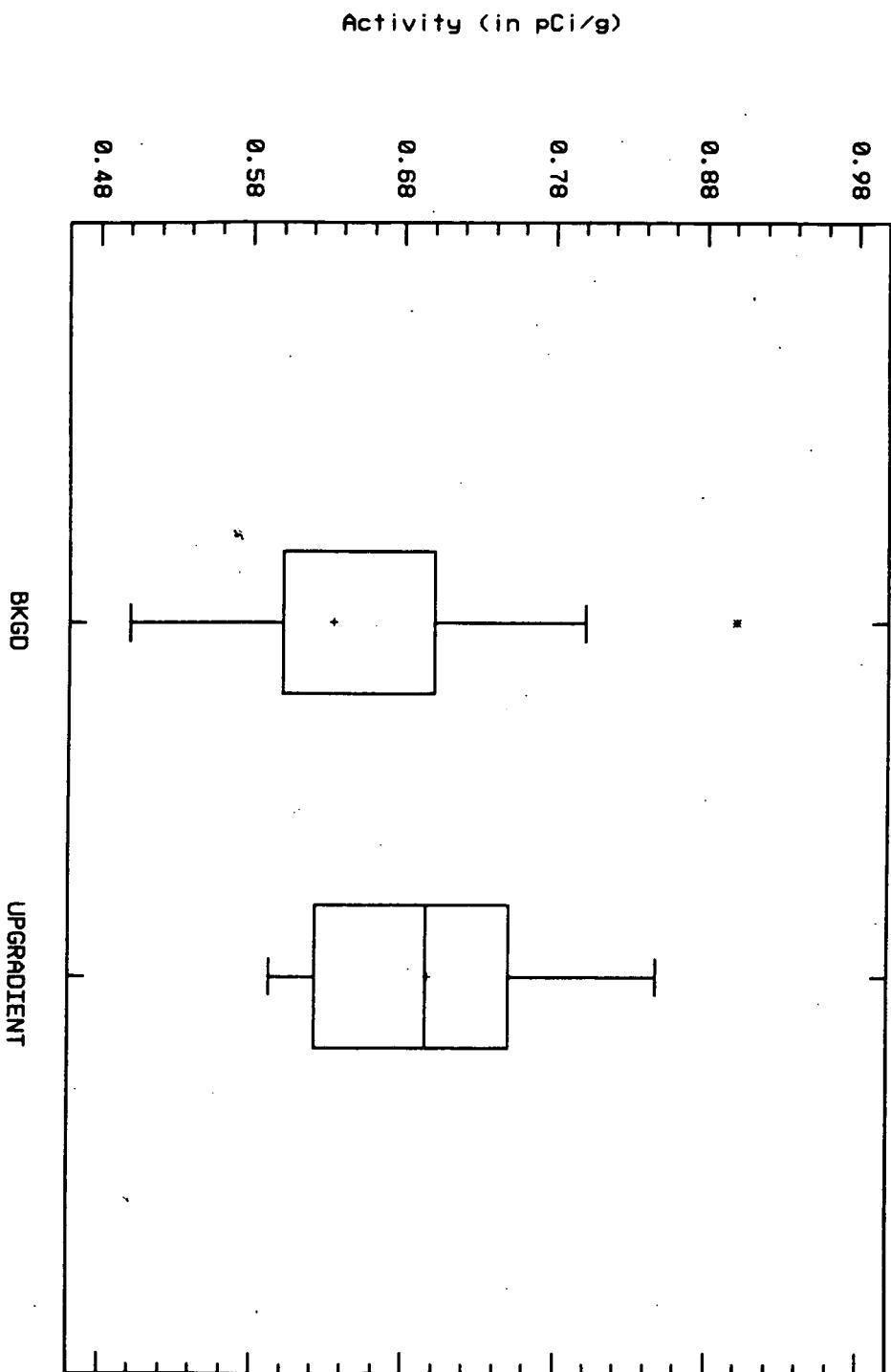


Potassium: Subsurface Soil
Background Qrf vs. DU7 Upgradient Qrf

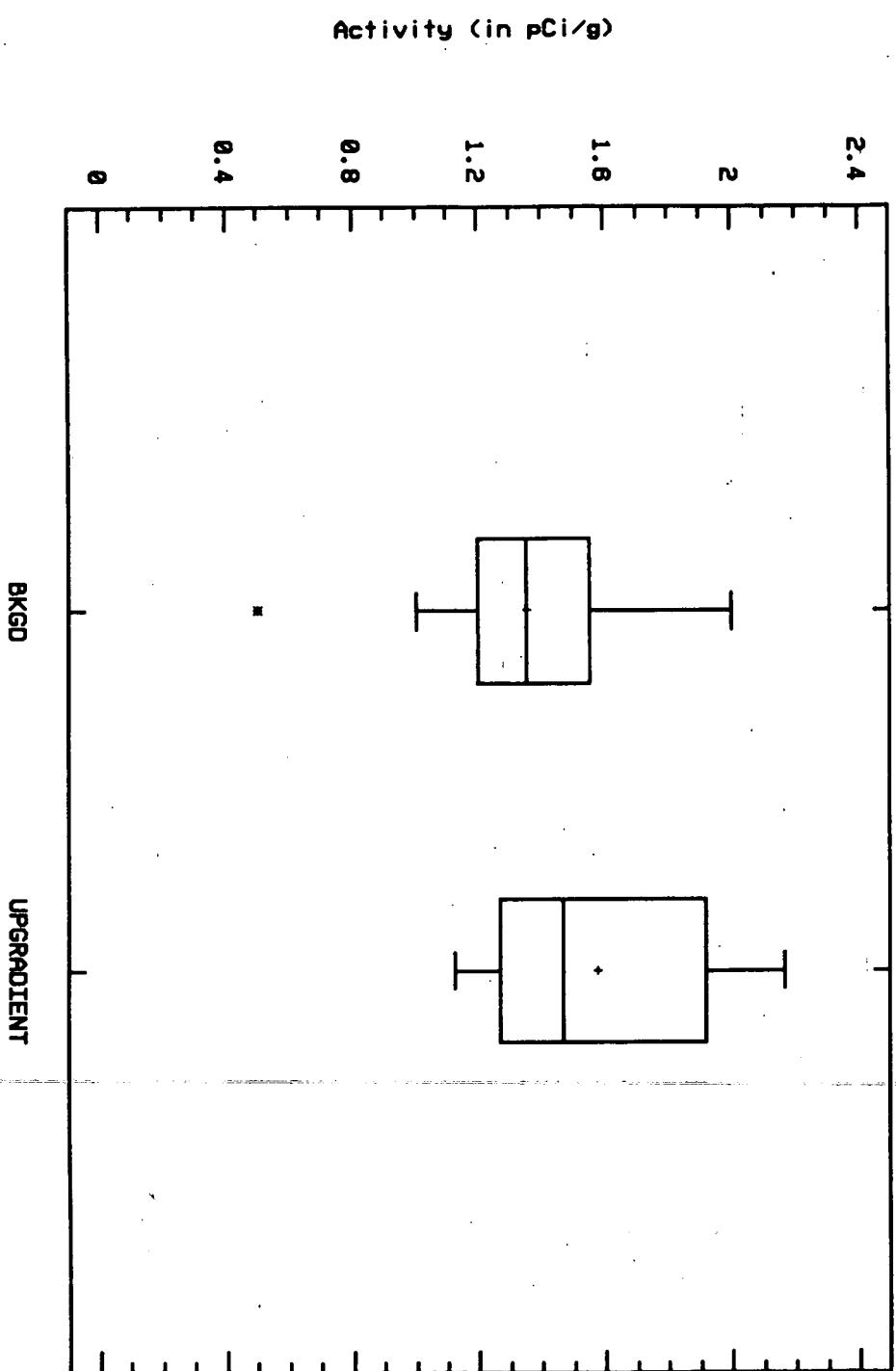


Radium-226: Subsurface Soil

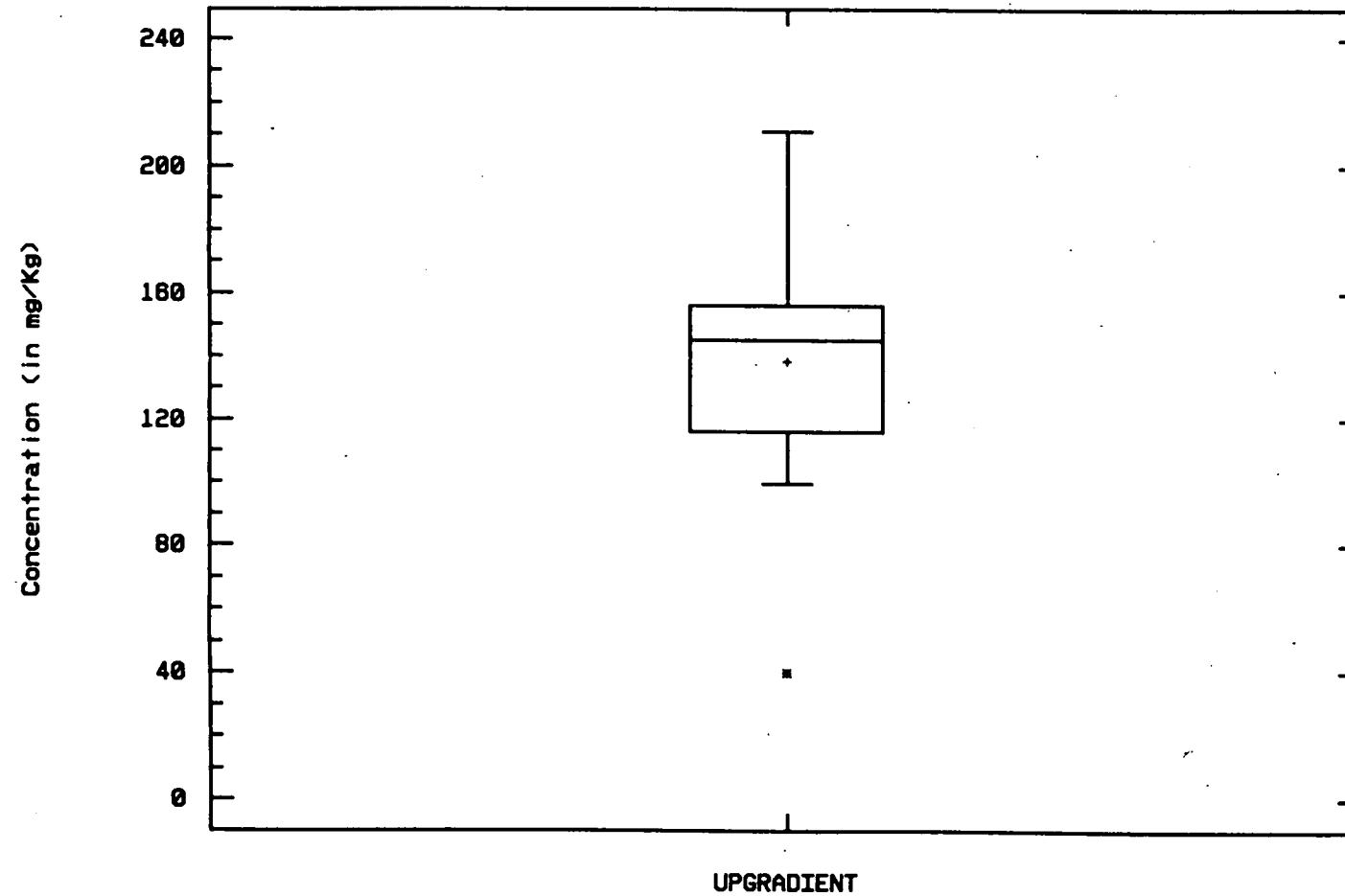
Background Qrf vs. OUT Upgradient Qrf



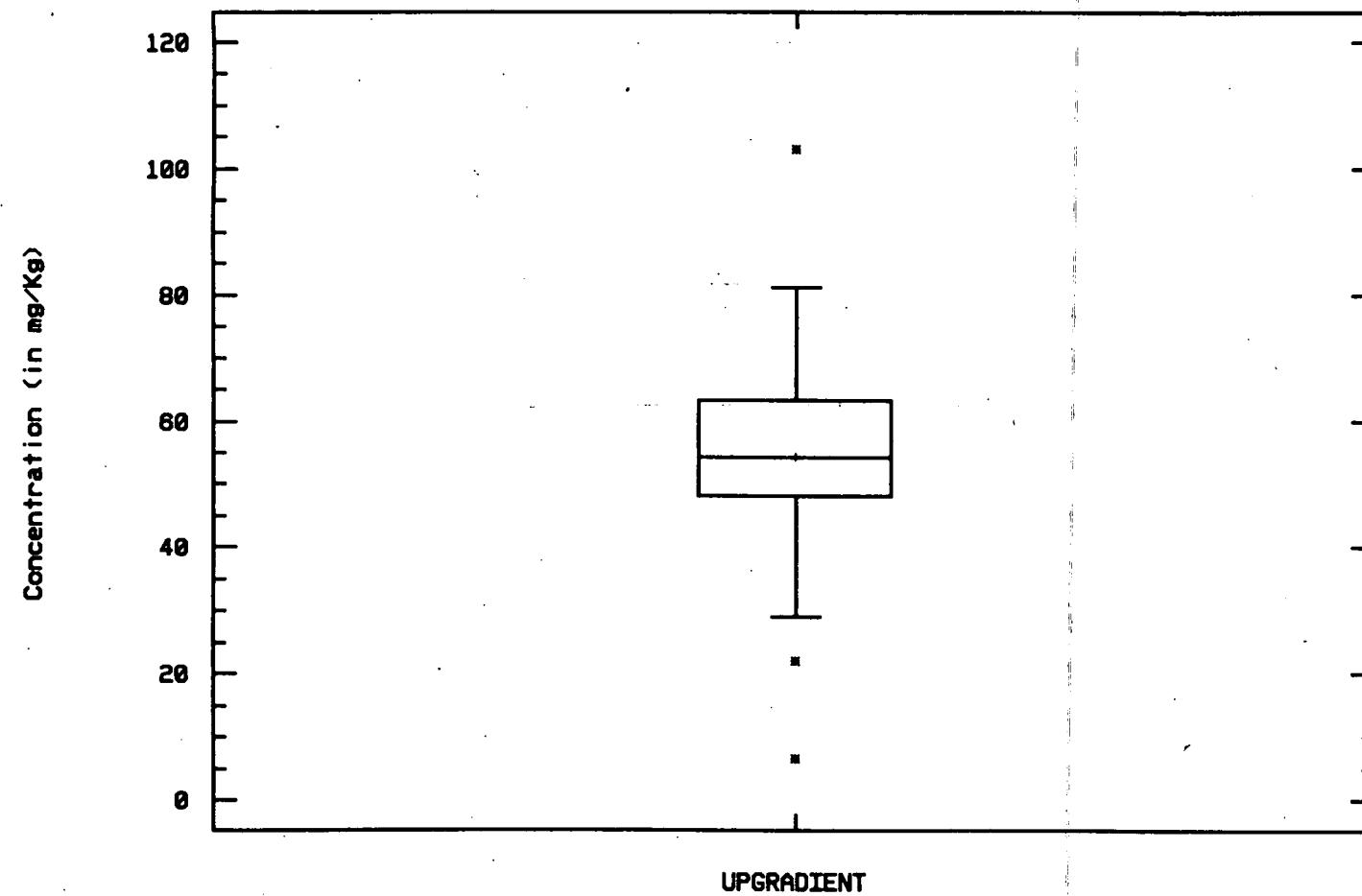
Radium-228: Subsurface Soil
Background Arf vs. OUT Upgradient Arf



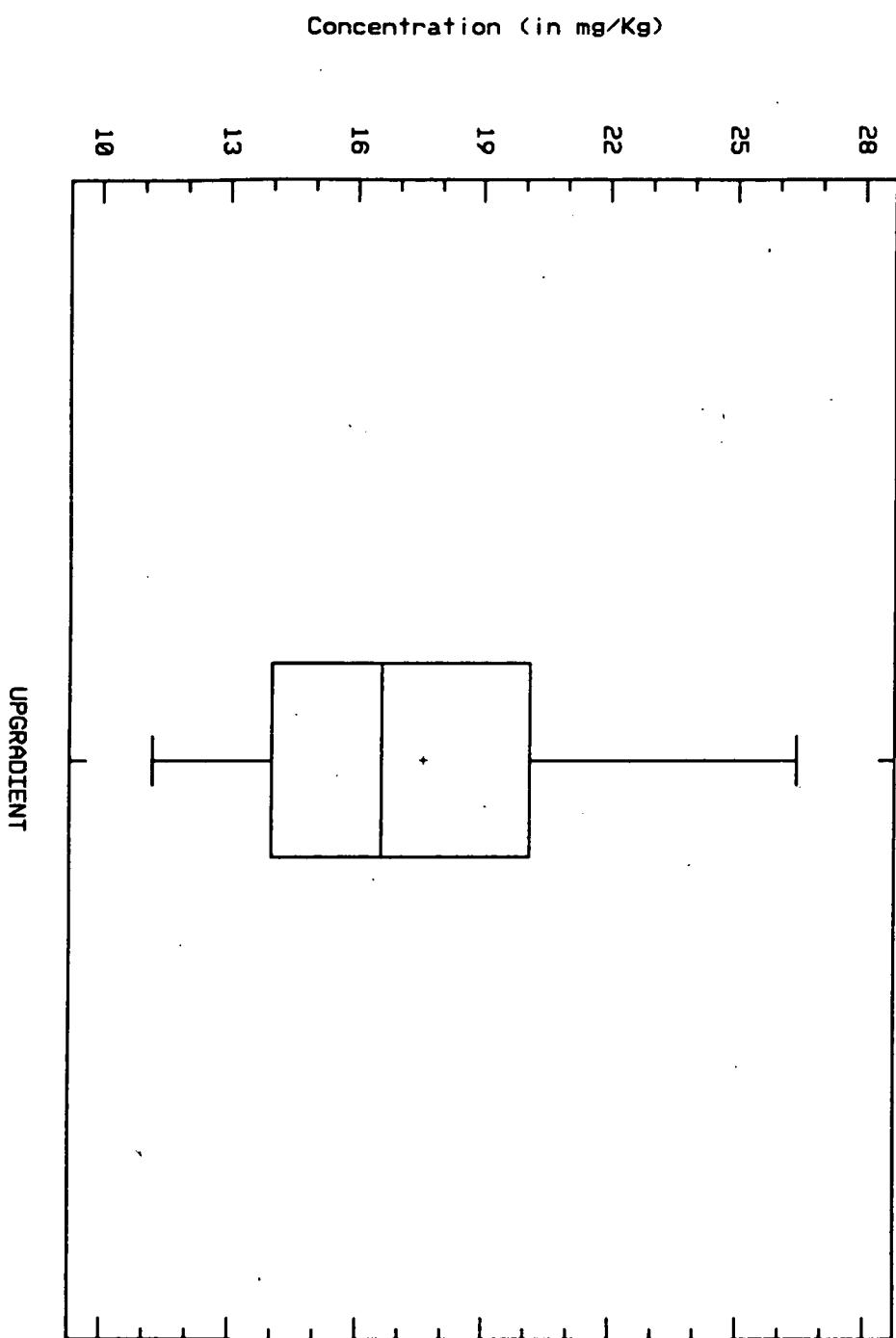
Silicon: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



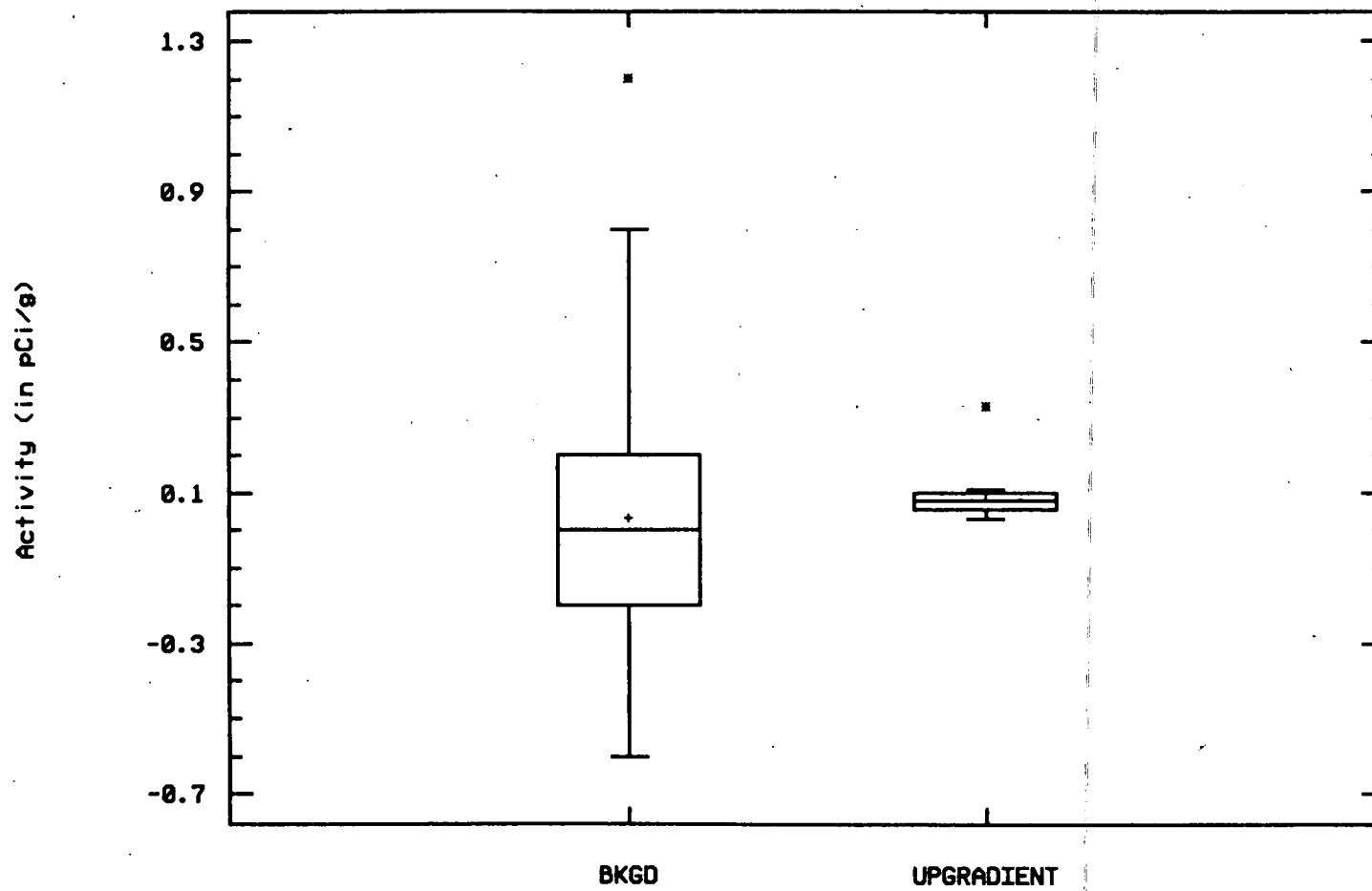
Sodium: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



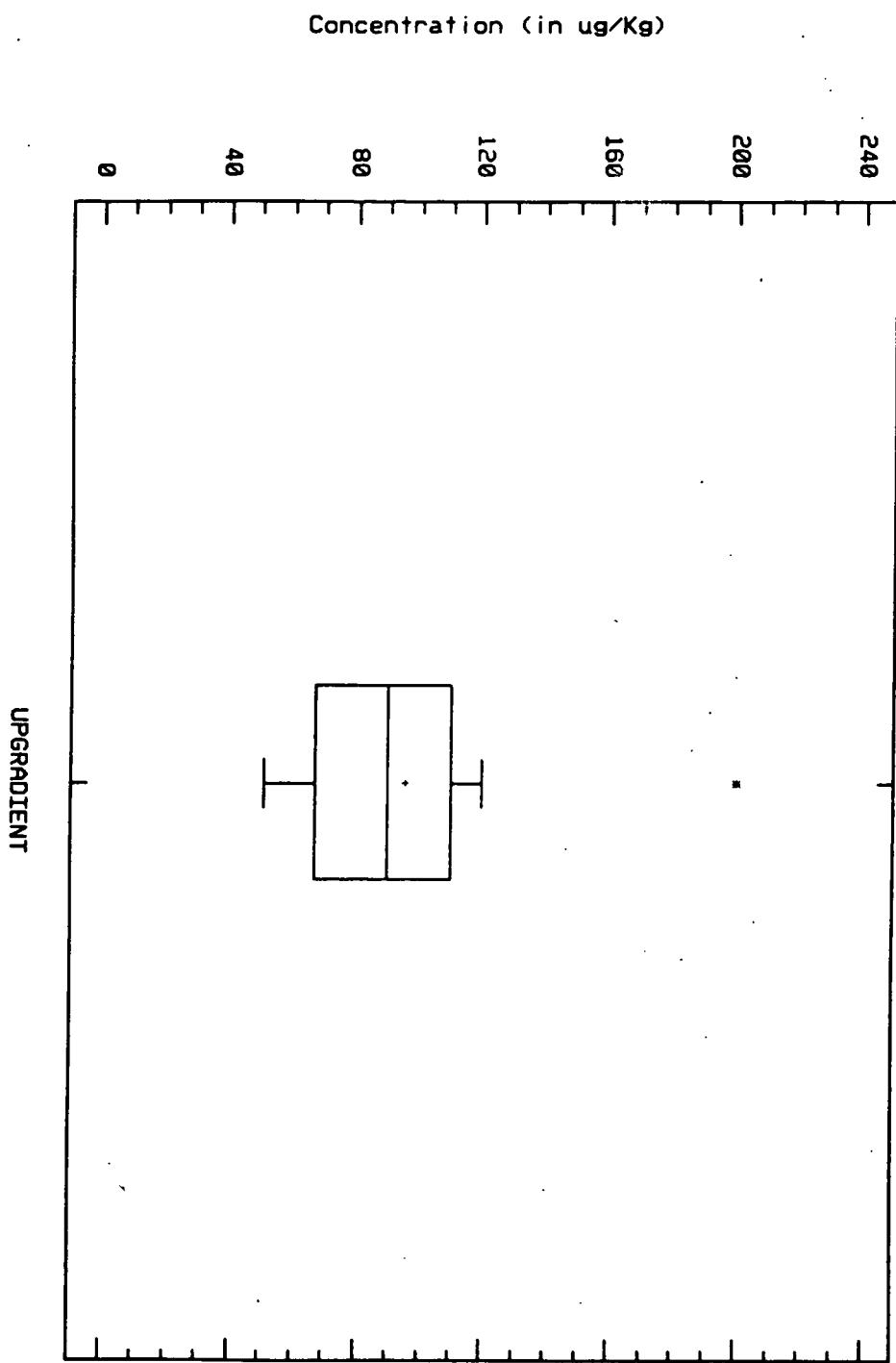
**Strontium: Subsurface Soil
Background Qrf vs. 0U7 Upgradient Qrf**



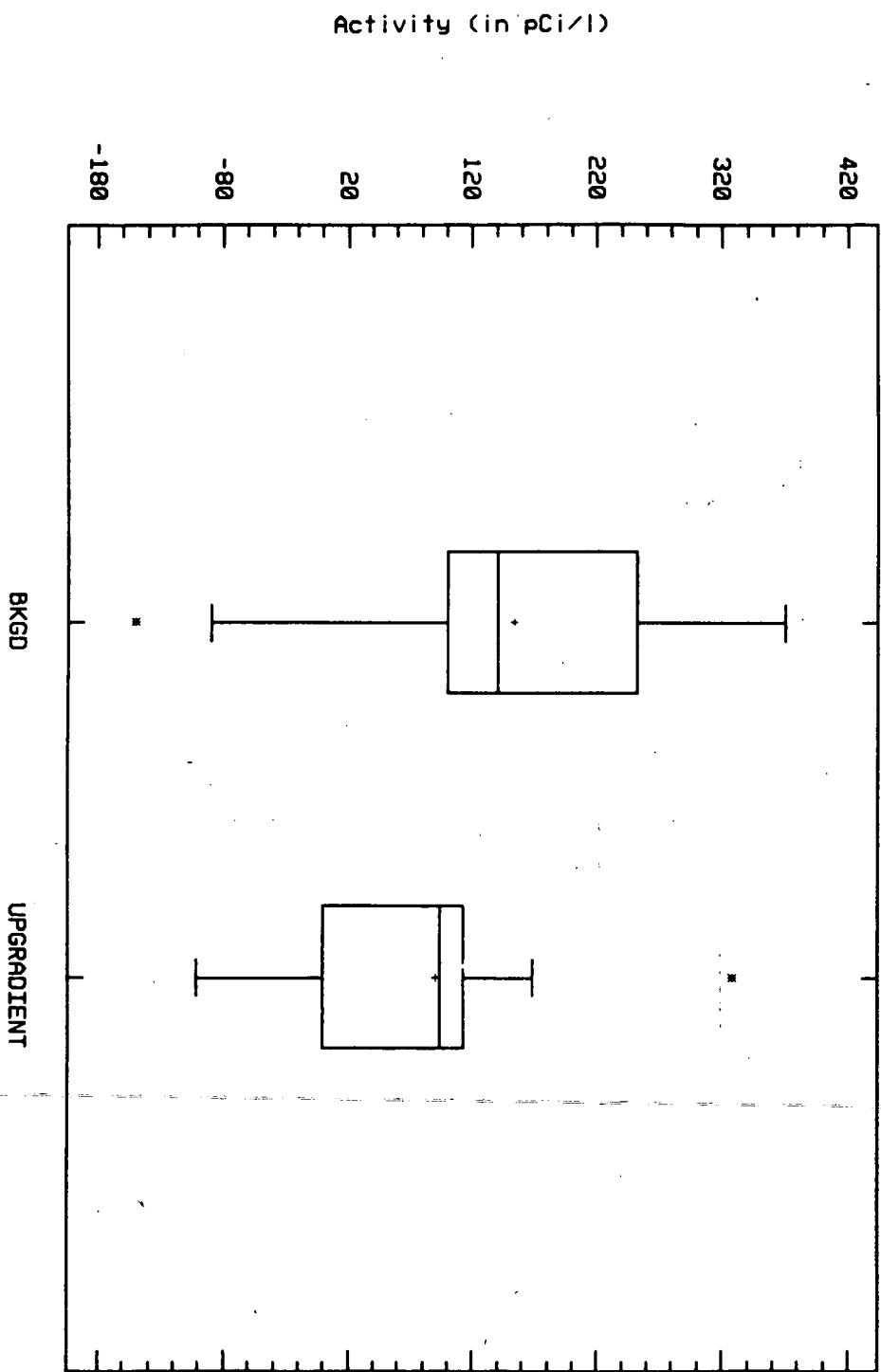
Strontium-89,90: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



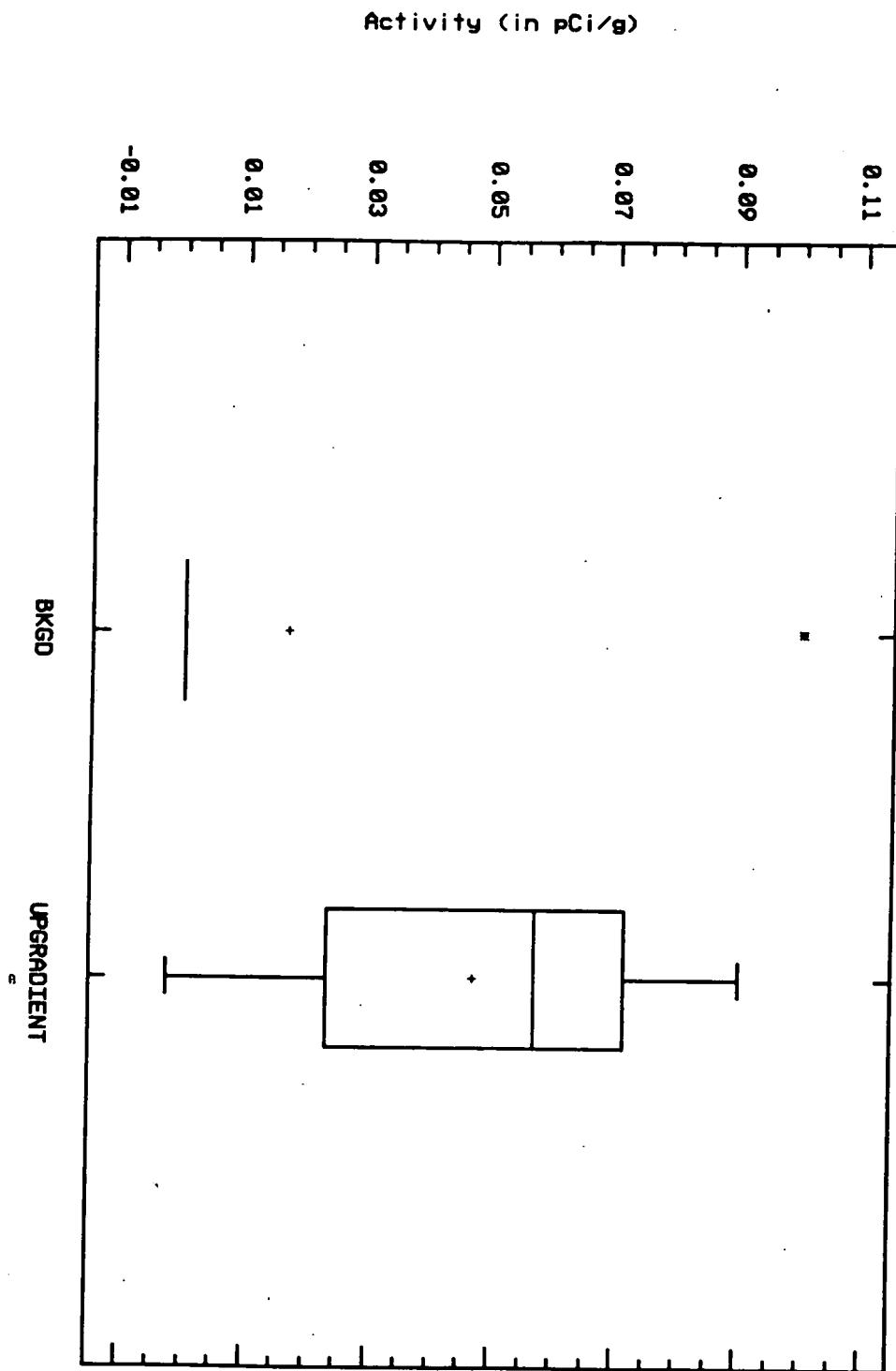
Toluene: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



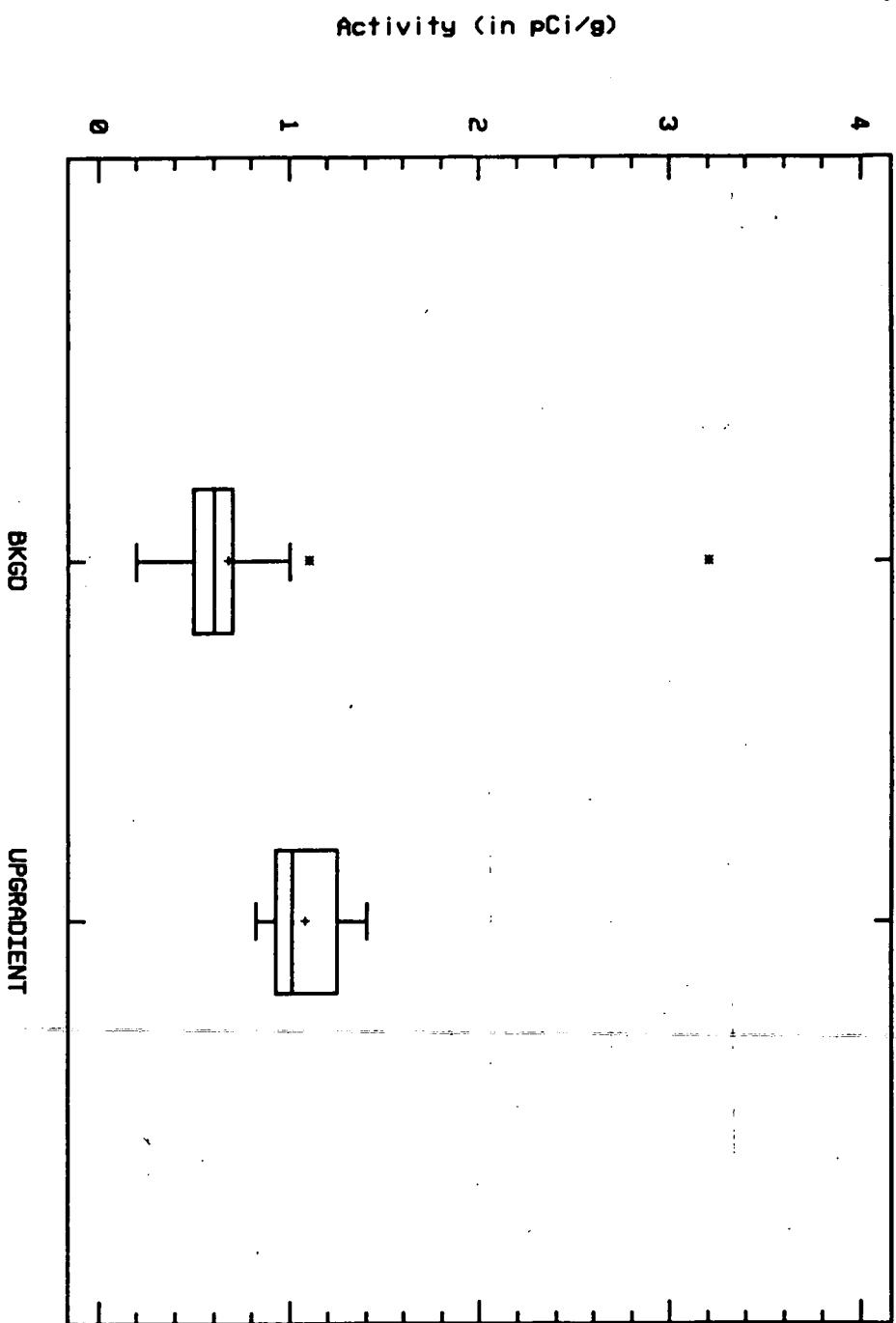
Tritium: Subsurface Soil
Background Δr_f vs. ΔU_7 Upgradient Δr_f



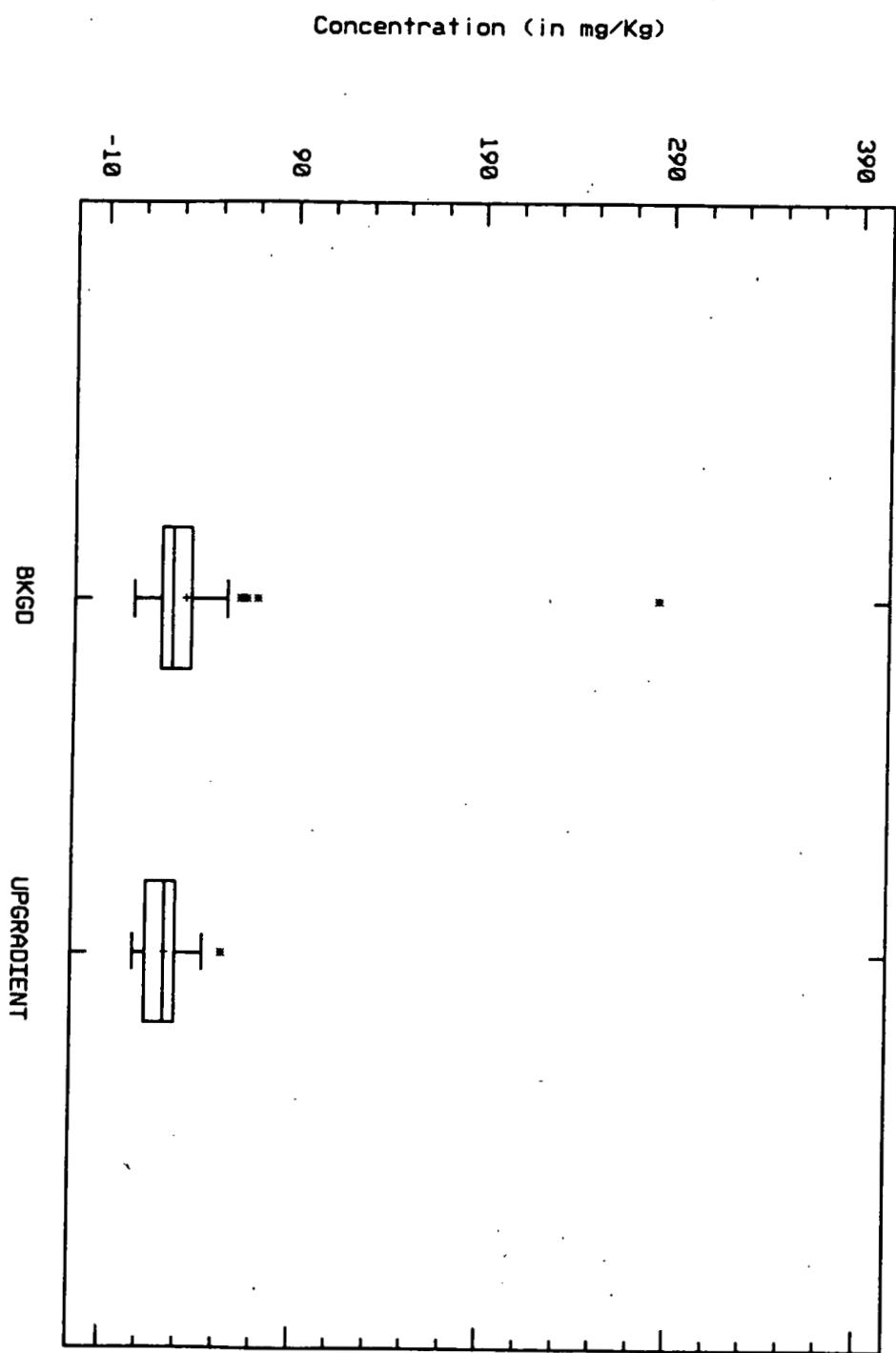
Uranium-235: Subsurface Soil
Background Δ r vs. OUT Upgradient Δ r



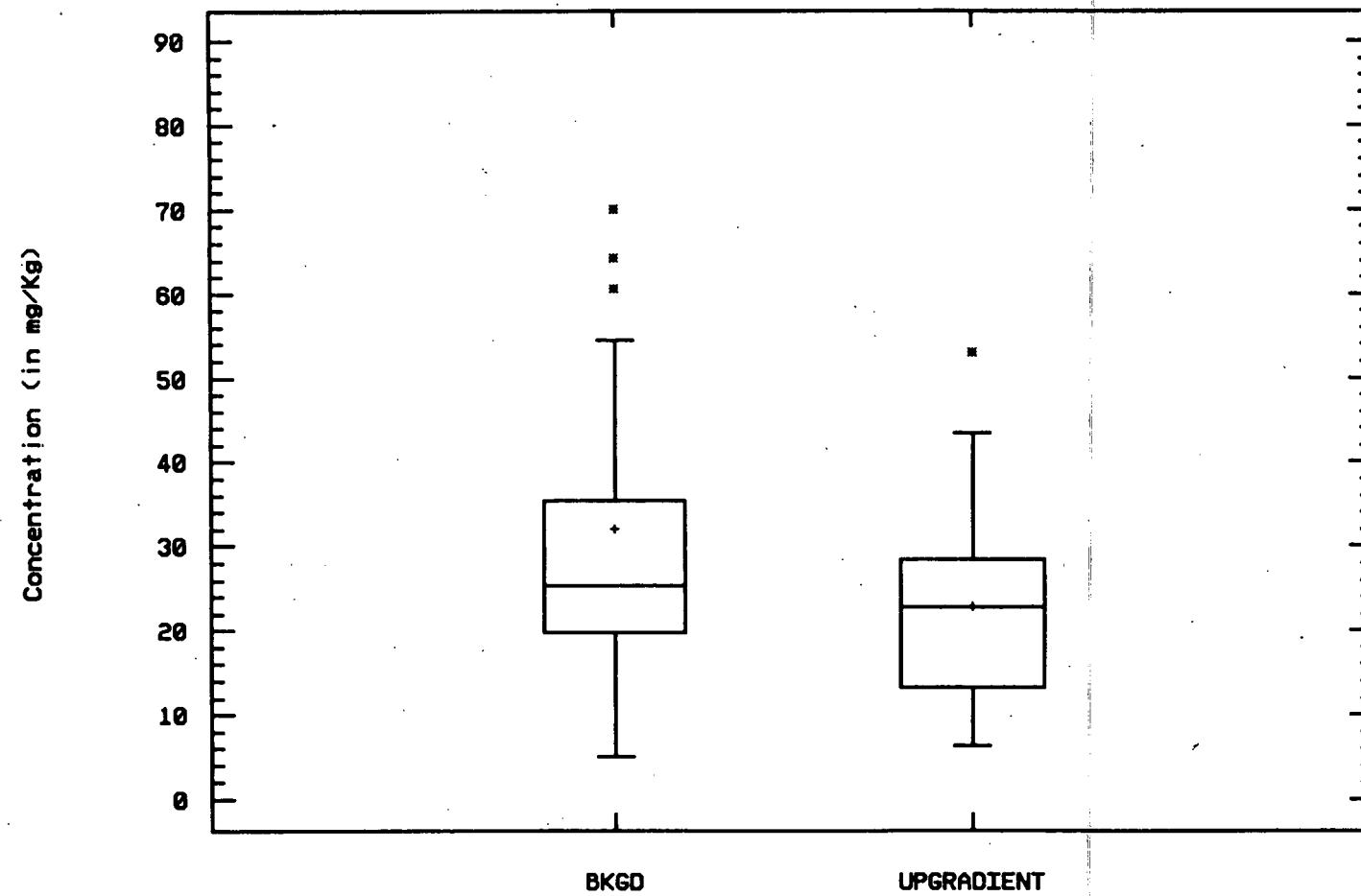
Uranium-238: Subsurface Soil
Background α -f vs. α -f Upgradeant α -f



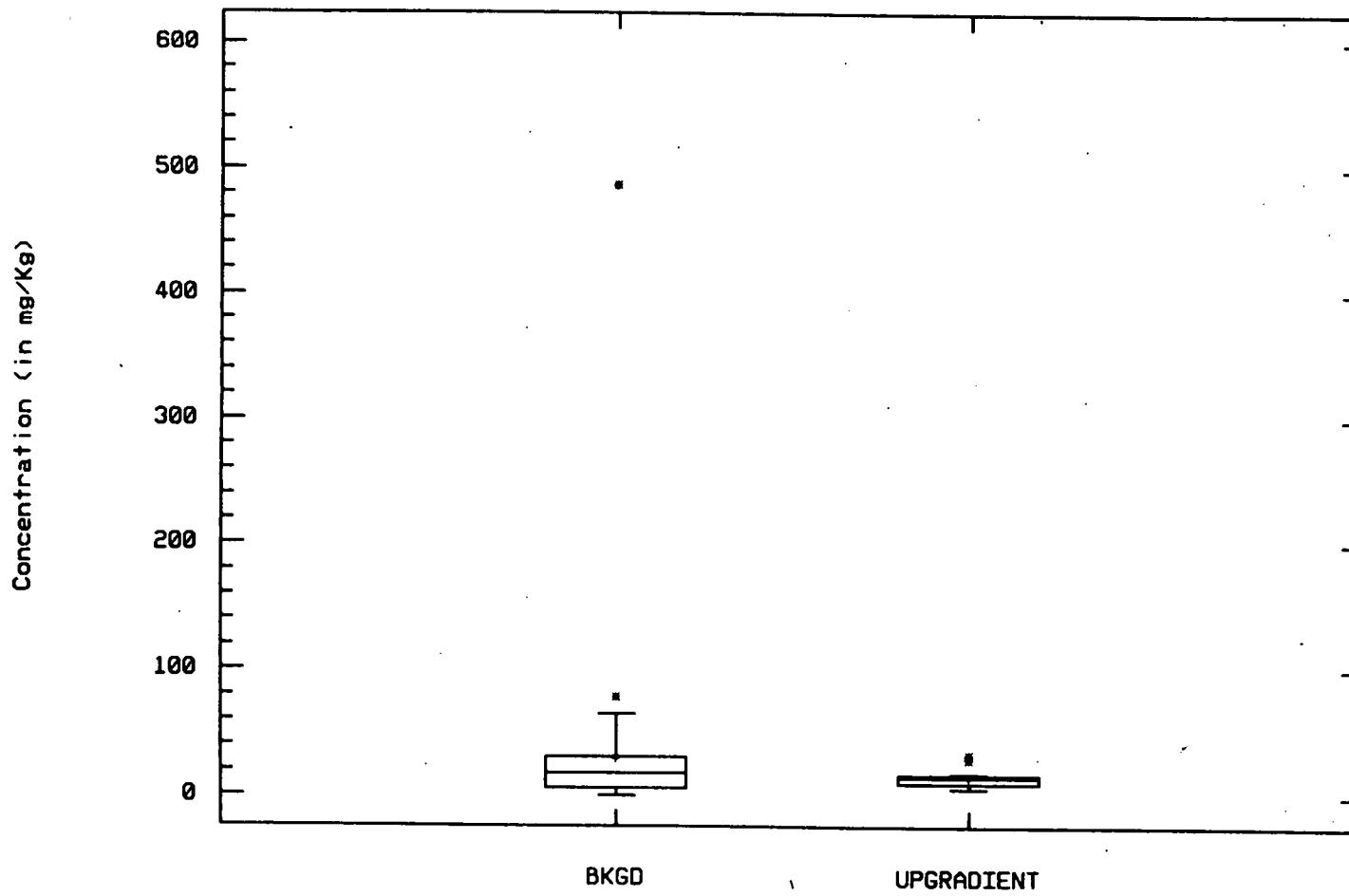
Vanadium: Subsurface Soil
Background Δr_f vs. OUT Upgradient Δr_f



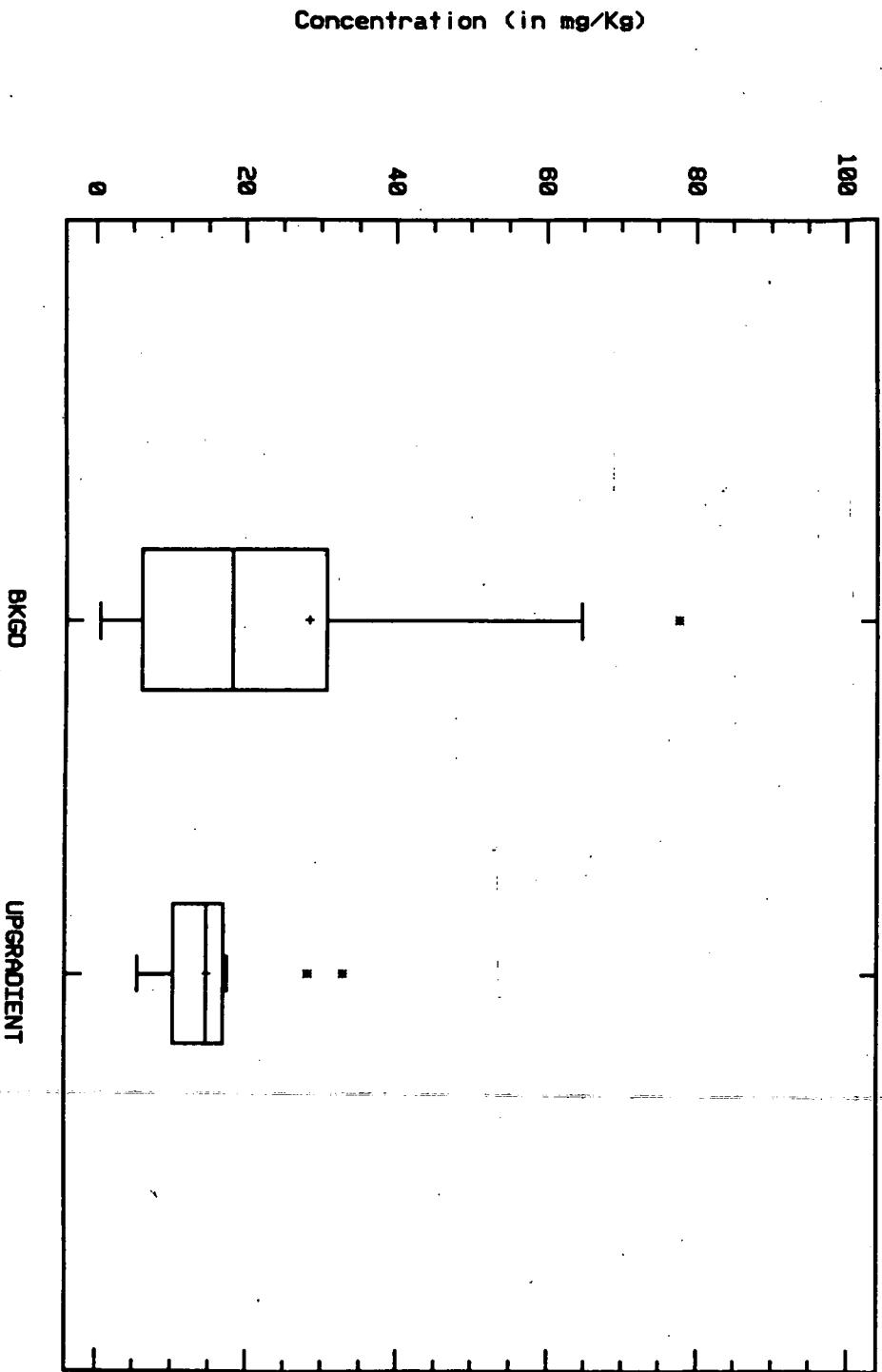
Vanadium: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



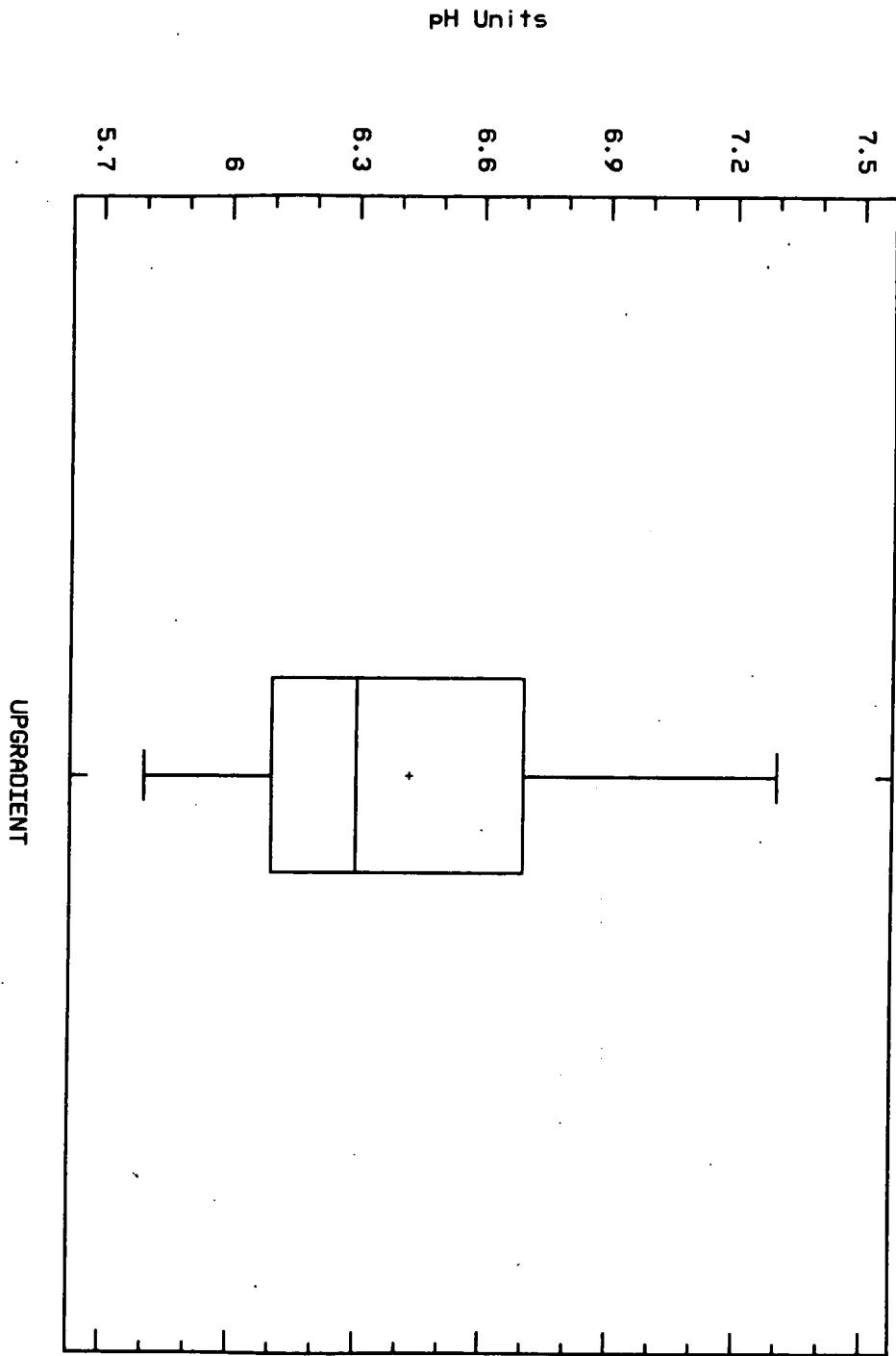
Zinc: Subsurface Soil
Background Qrf vs. OU7 Upgradient Qrf



Zinc: Subsurface Soil
Background Drift vs. 0U7 Upgradient Drift



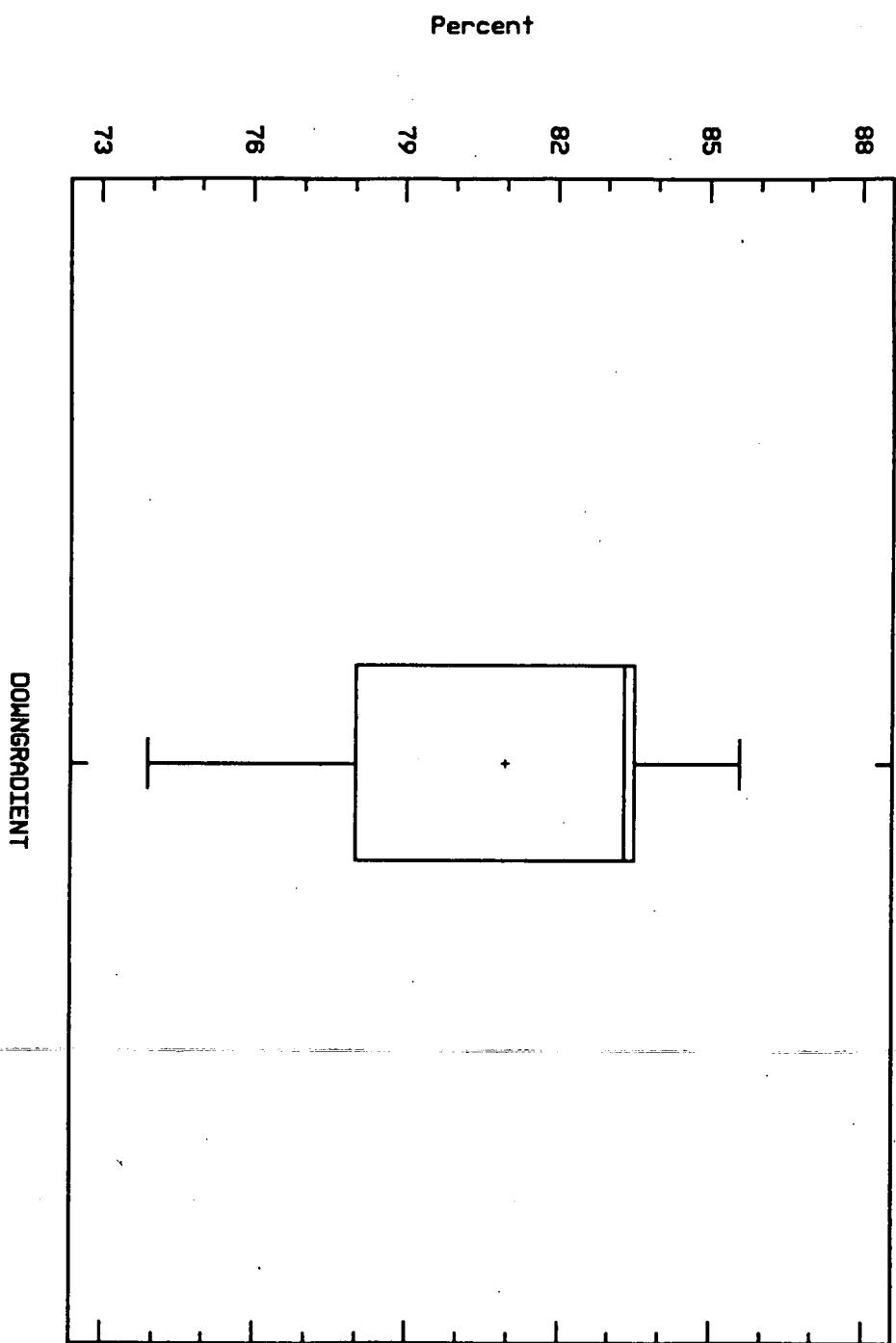
pH: Subsurface Soil
Background Qrf vs. OUT Upgradient Qrf



Subsurface Geologic Materials

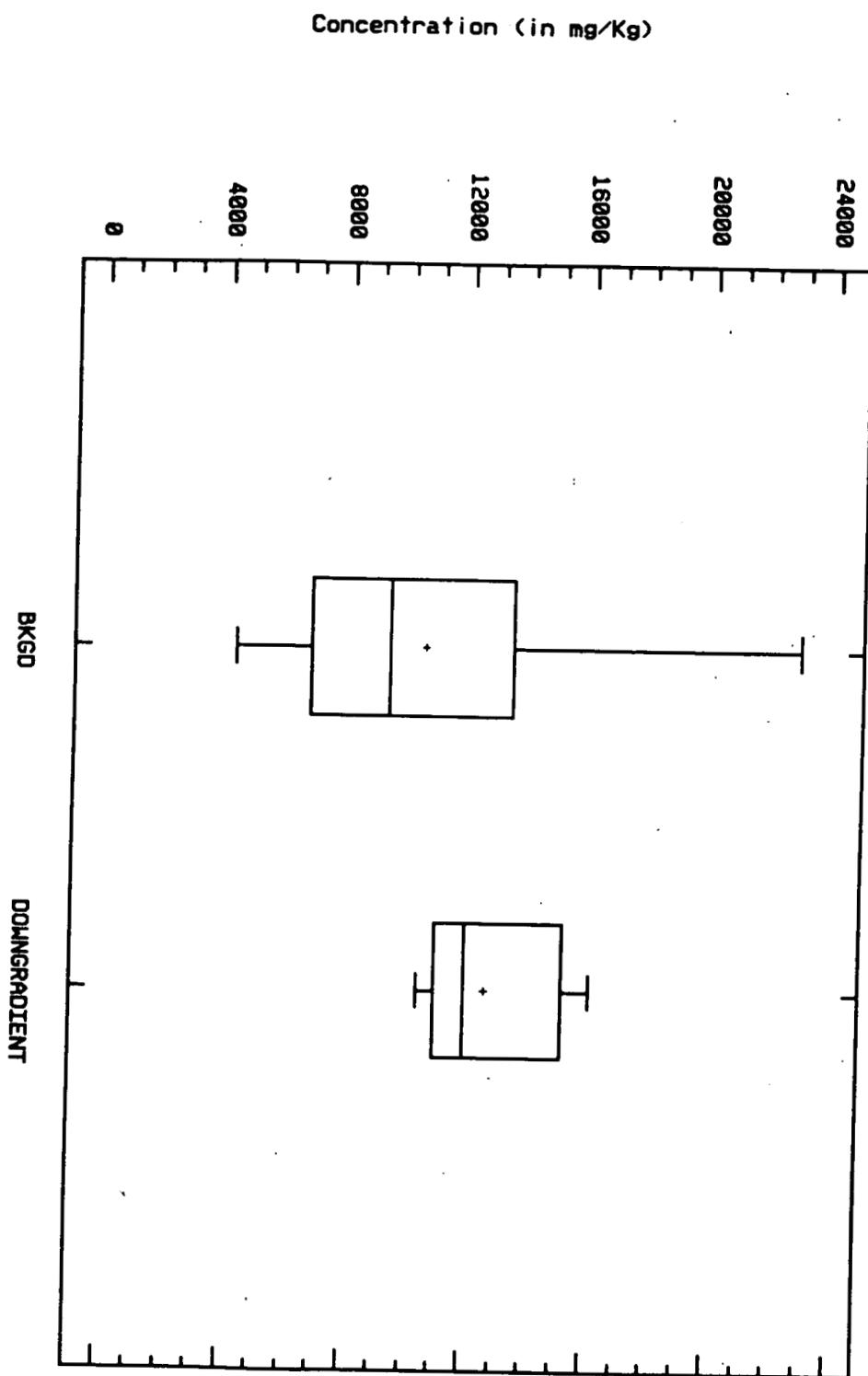
Background vs. OU 7 Downgradient Qc

% Solids: Subsurface Soils
Background Qc vs. OUT Downgradient Qc

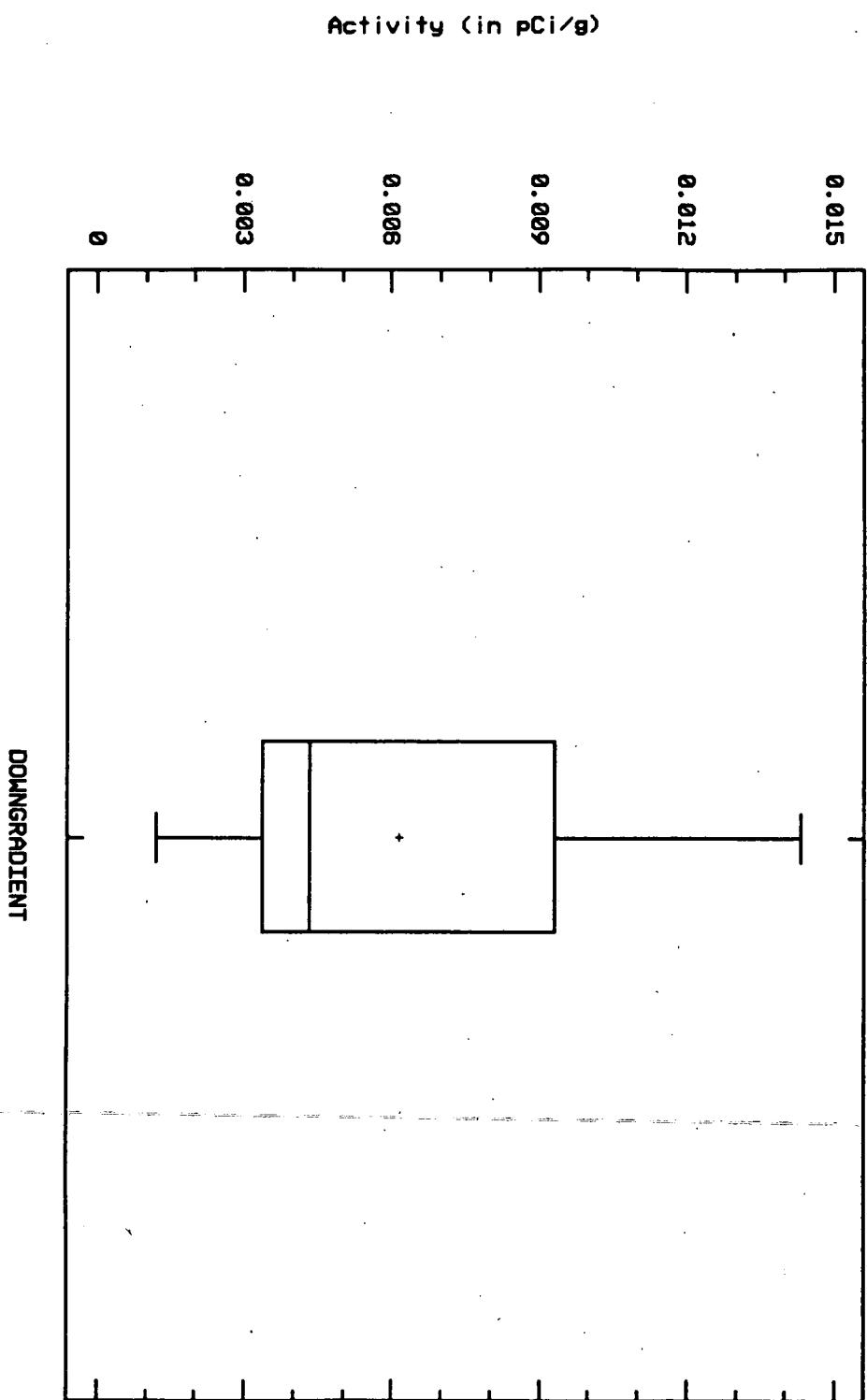


Aluminum: Subsurface Soils

Background Q_c vs. OUT Downgradient Q_c

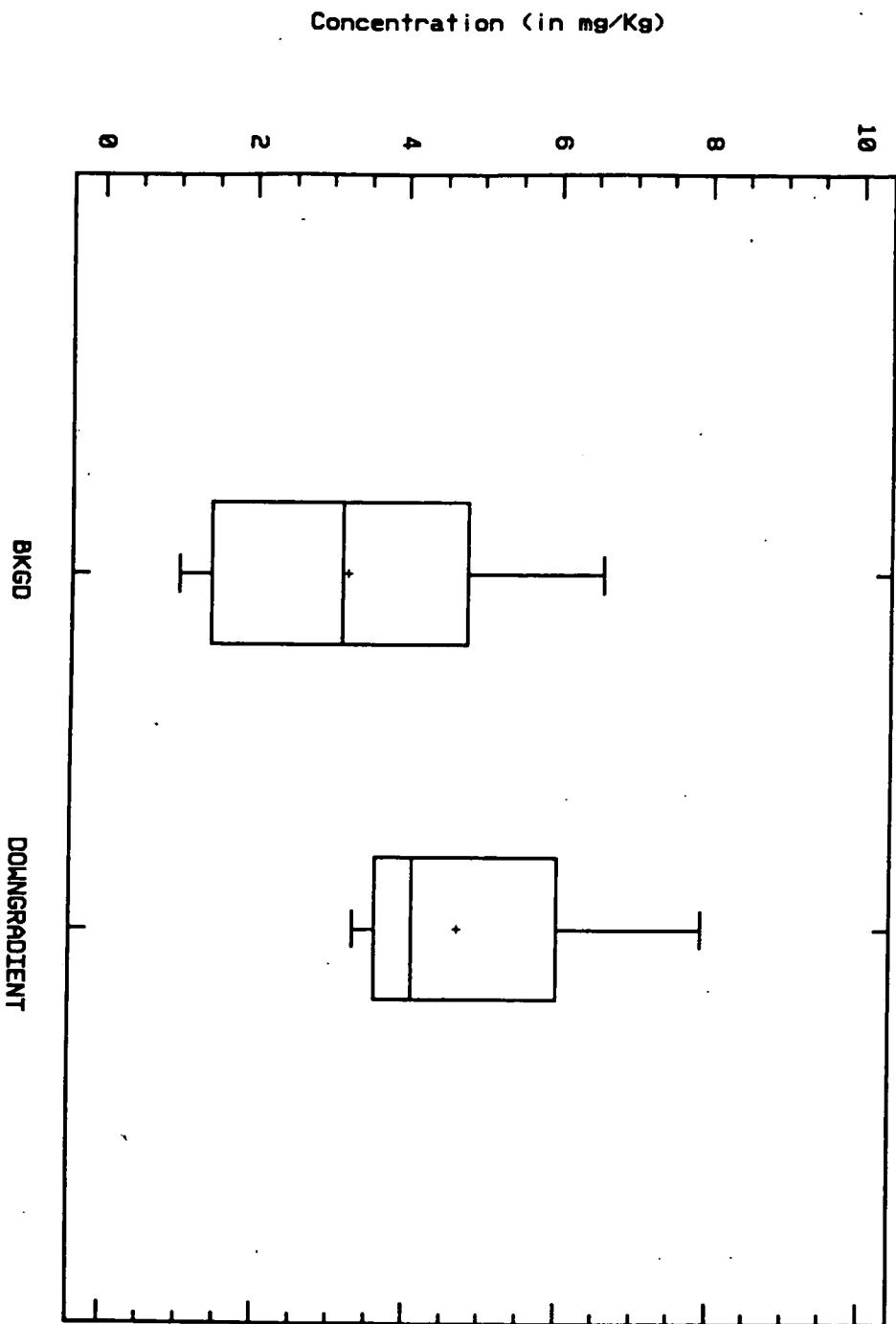


Americium-241: Subsurface Soils
Background Qc vs. OUT Downgradient Qc

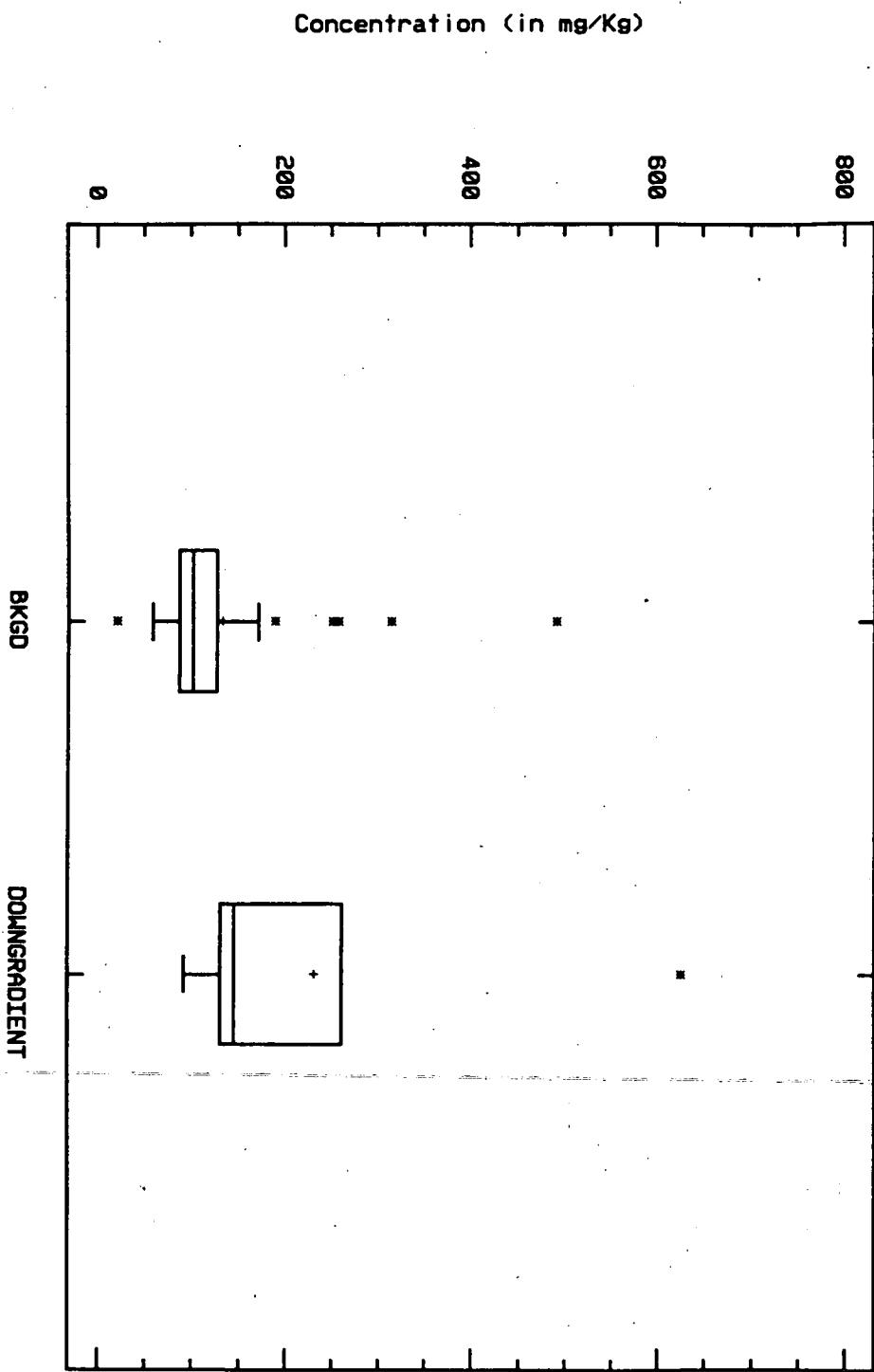


Arsenic: Subsurface Soils

Background Qc vs. OUT Downgradient Qc

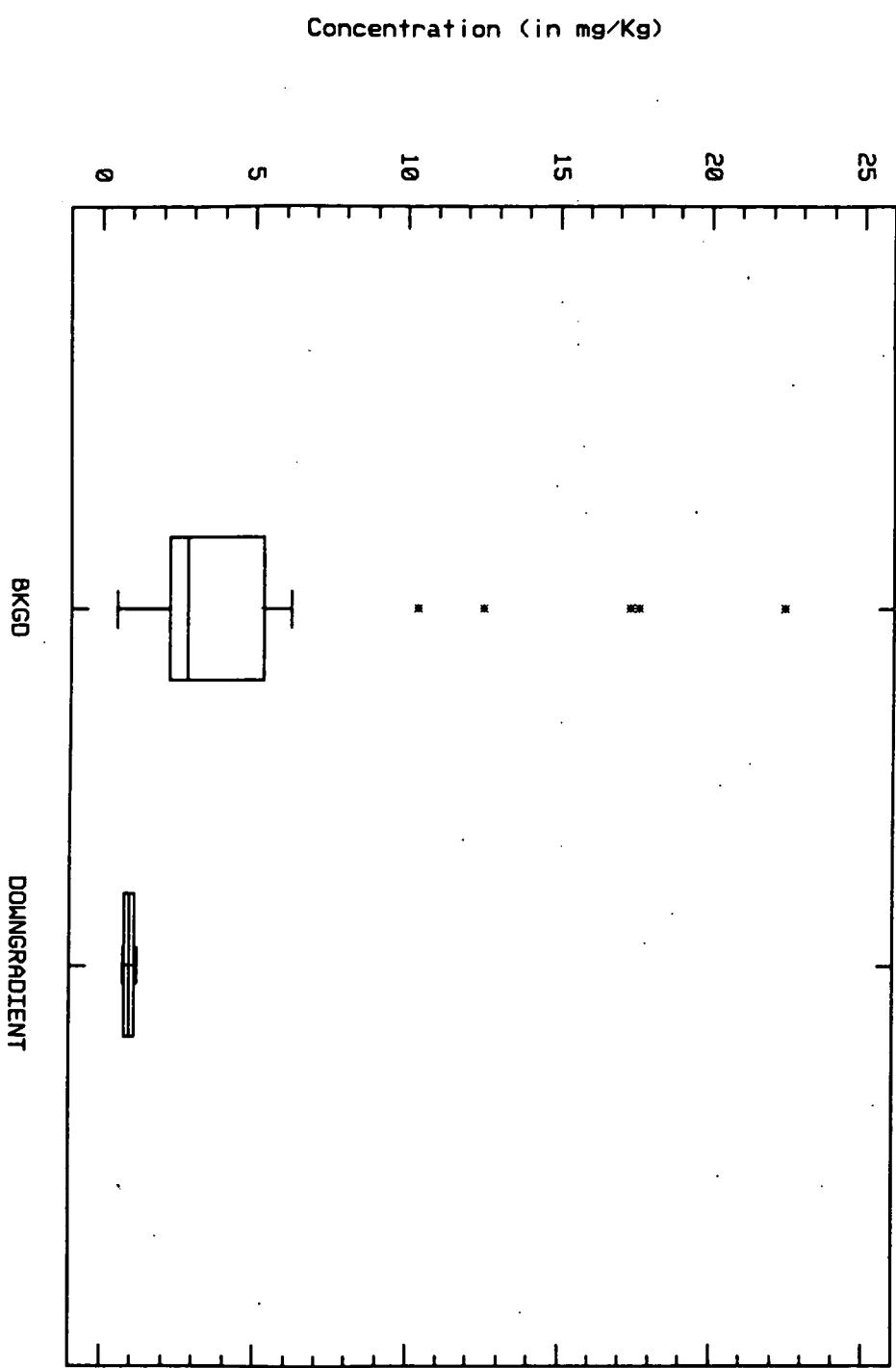


Barium: Subsurface Soils
Background Ac vs. OU7 Downgradient Ac

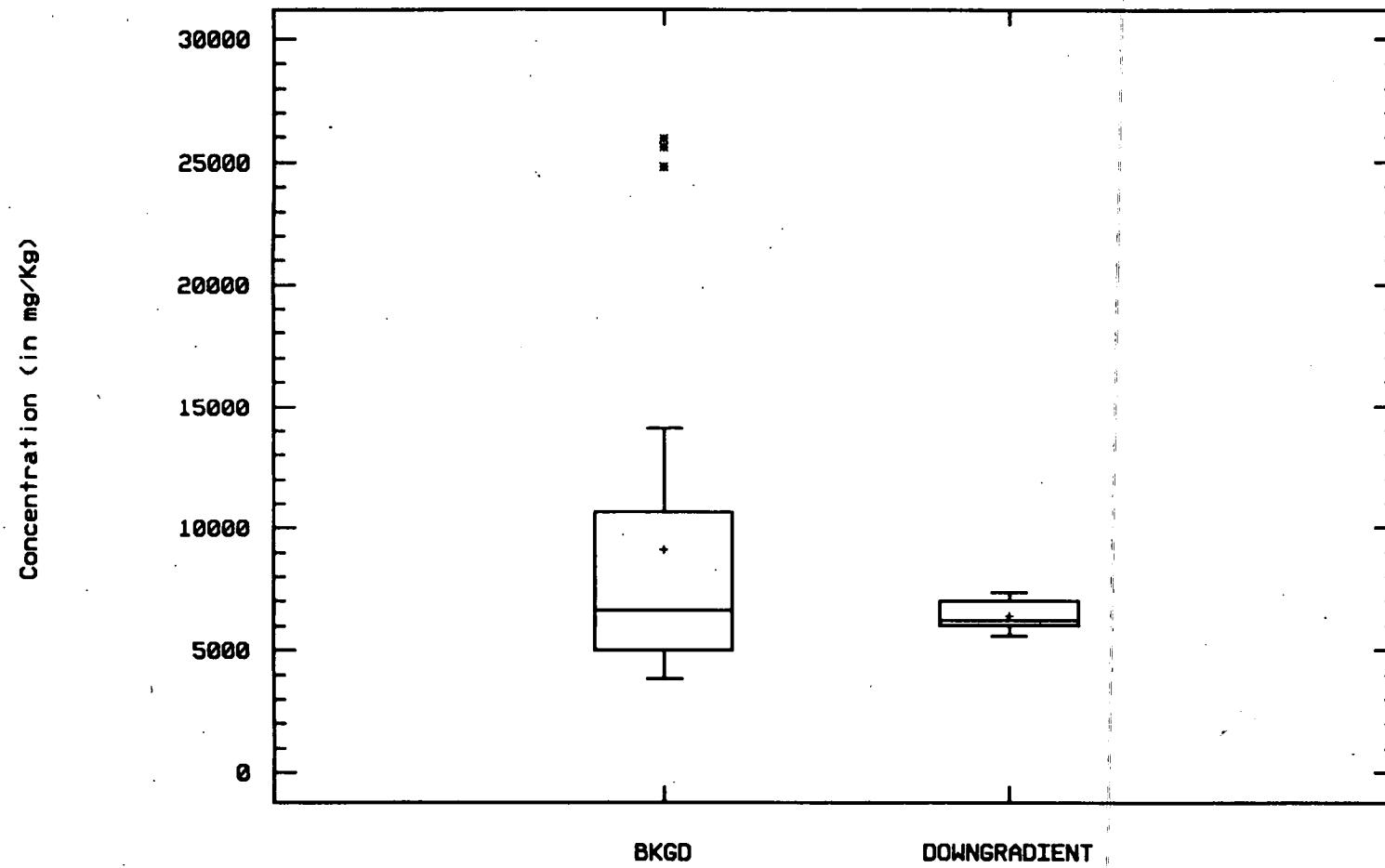


Beryllium: Subsurface Soils

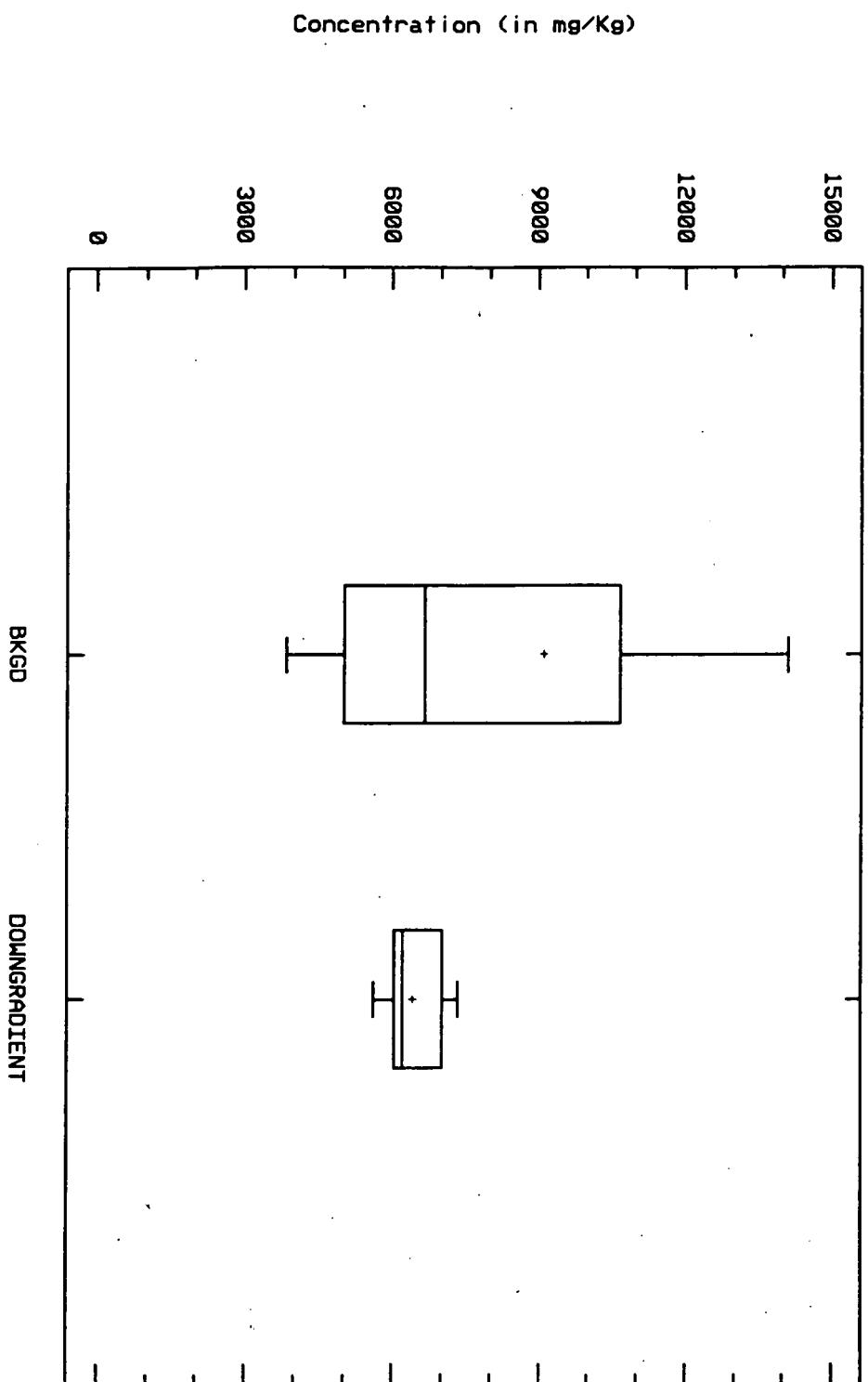
Background Qc vs. DU7 Downgradient Qc



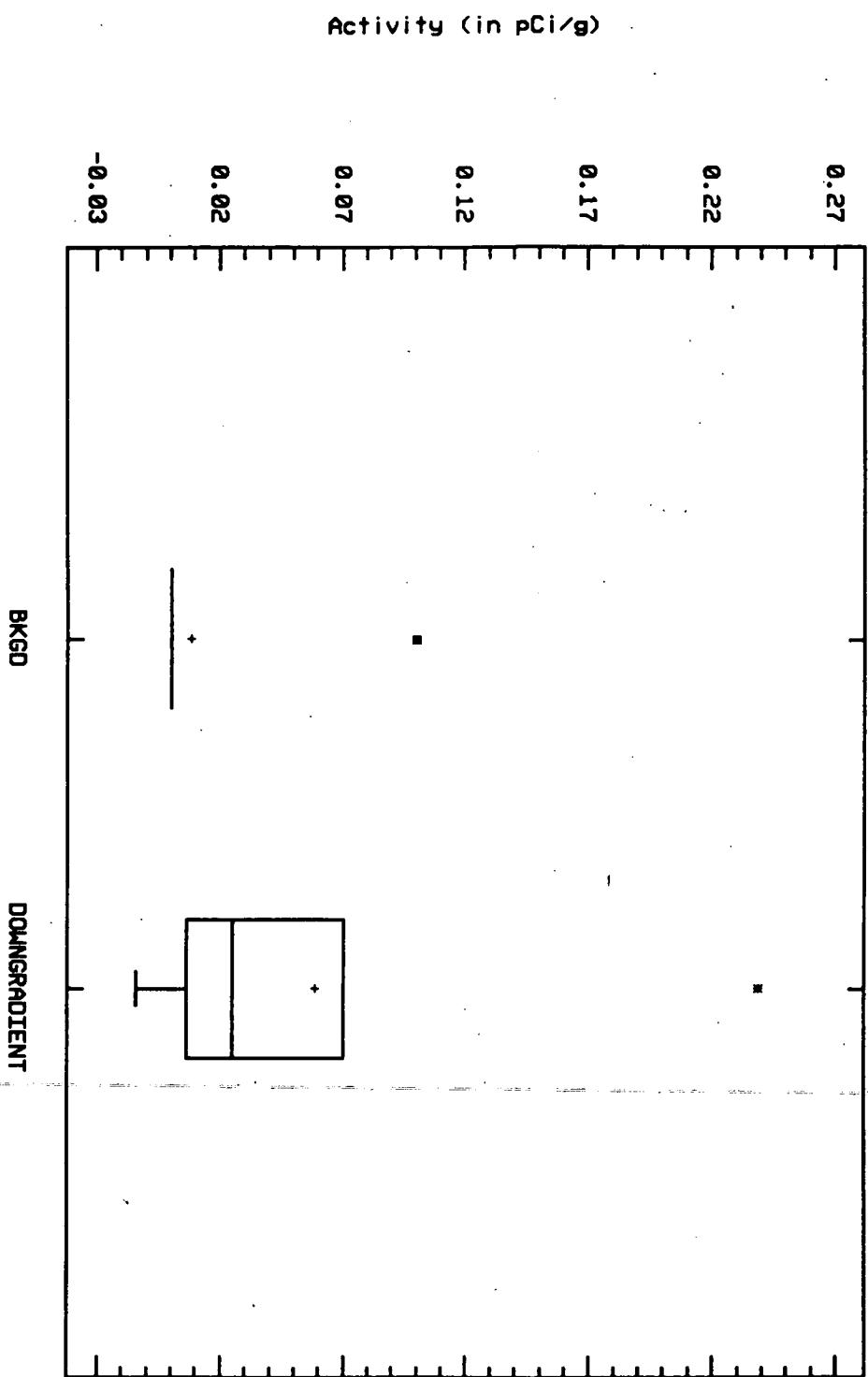
Calcium: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc



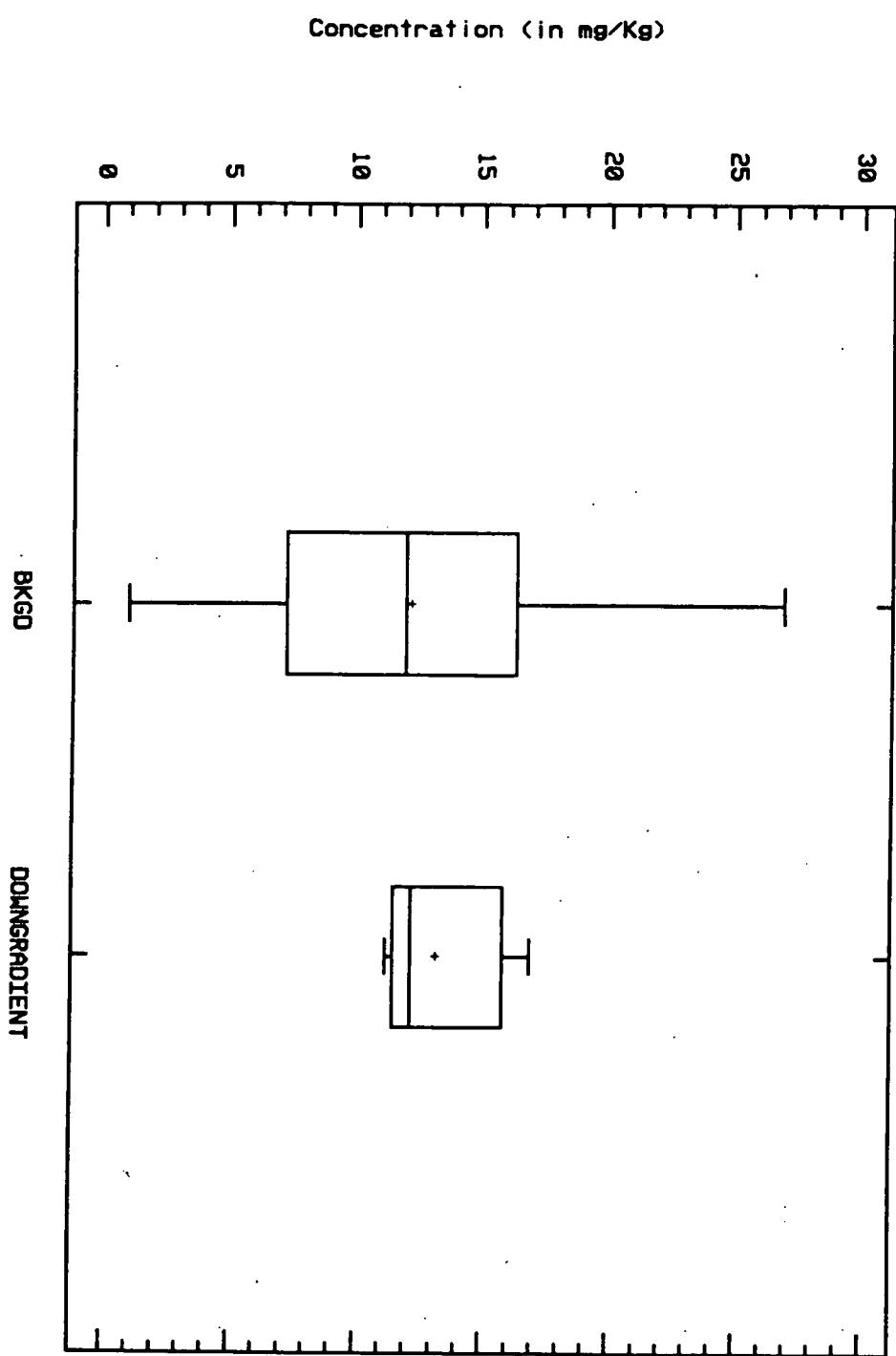
Calcium: Subsurface Soils
Background Oc vs. 0U7 Downgradient Oc



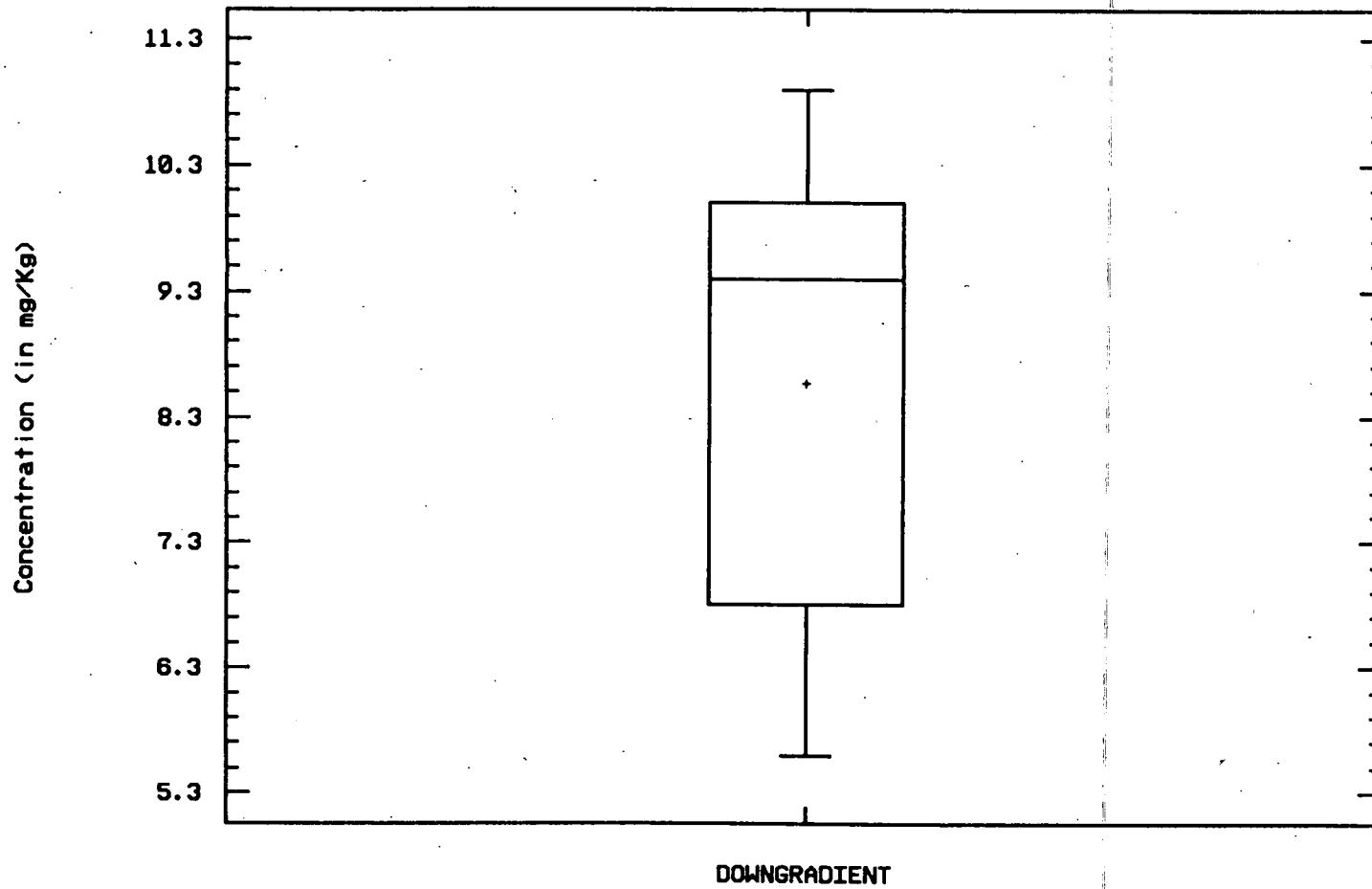
Cesium-137: Subsurface Soils
Background Δ c vs. Δ U7 Downgradient Δ c



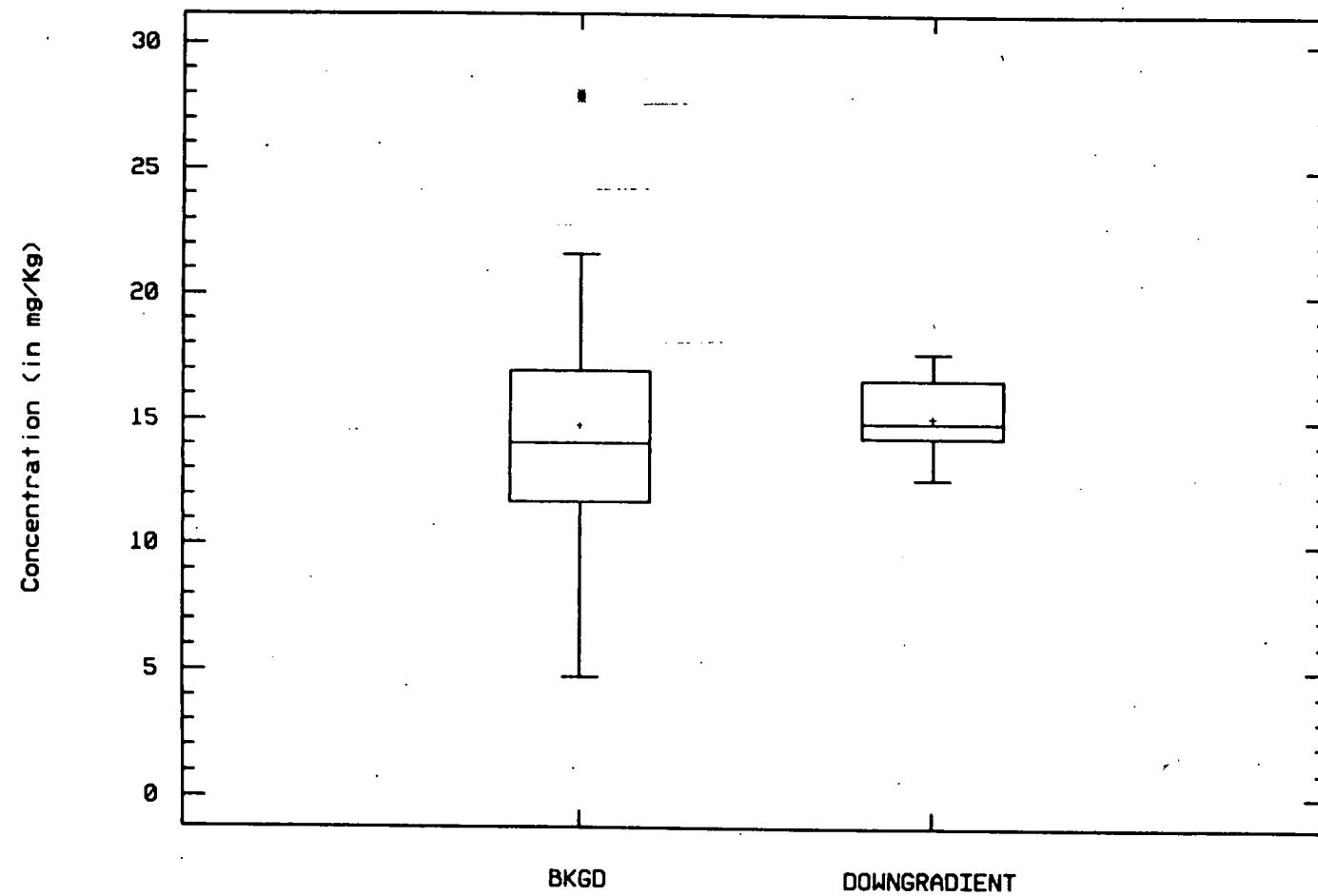
Chromium: Subsurface Soils
Background Qc vs. 0U7 Downgradient Qc



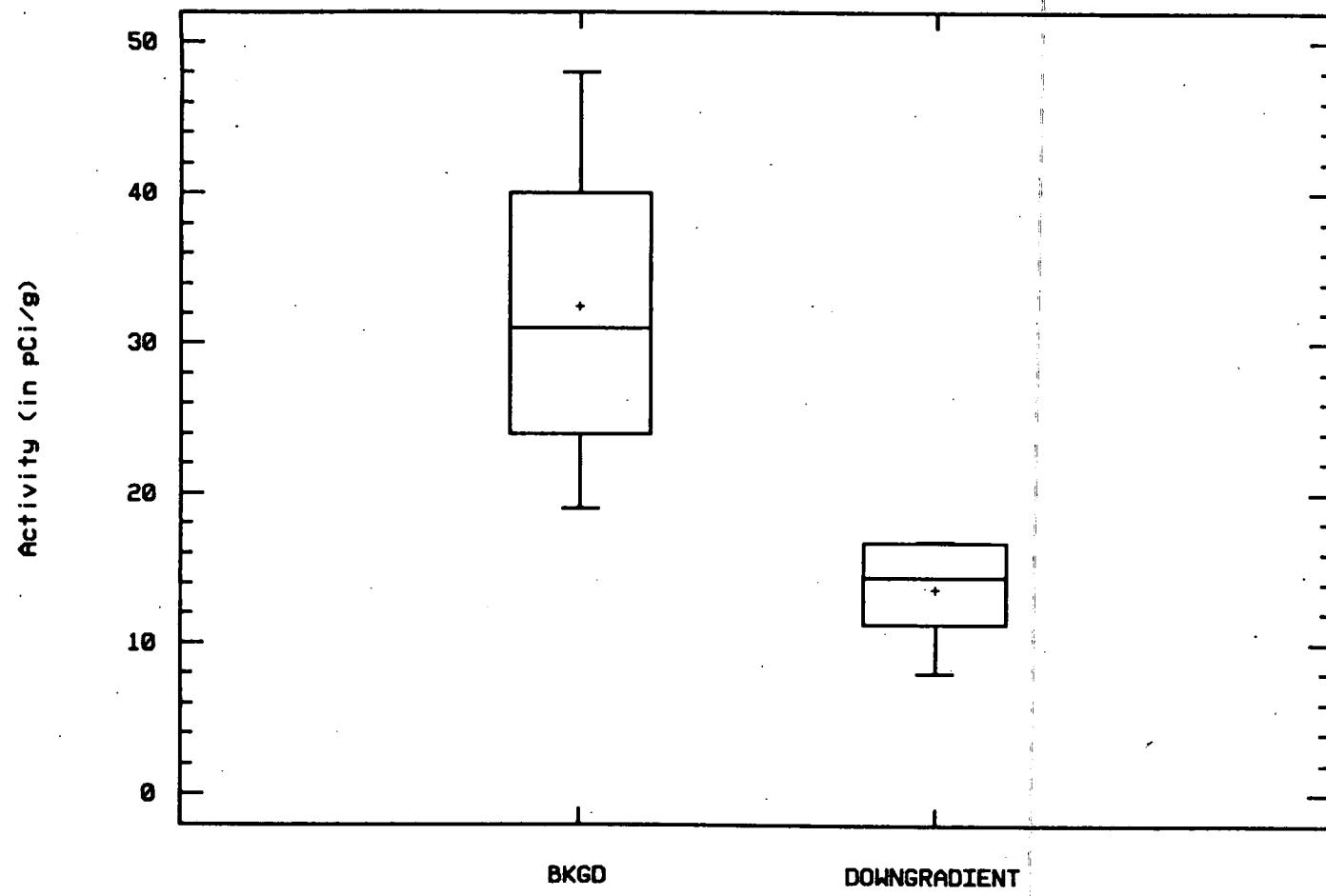
Cobalt: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc



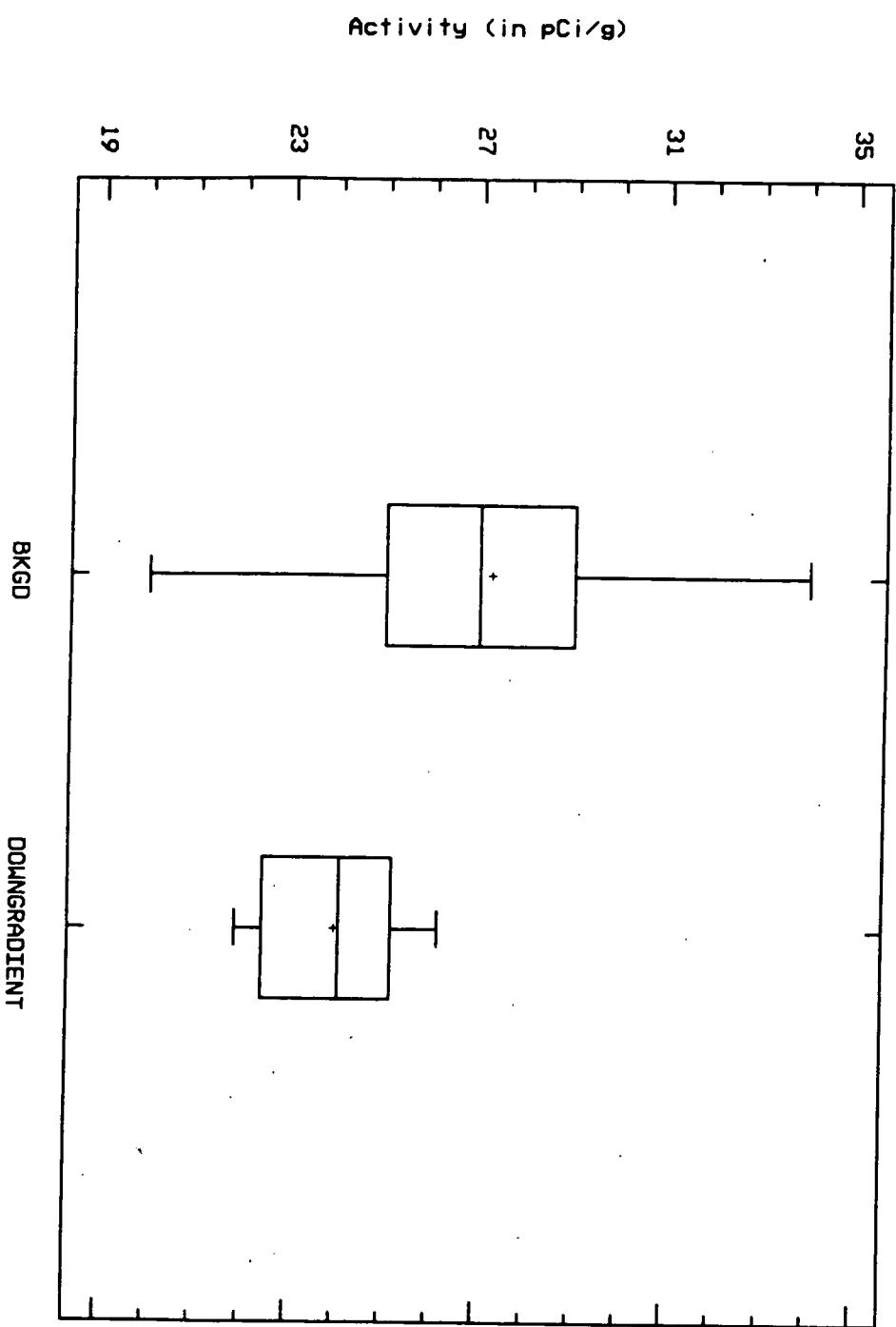
Copper: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc



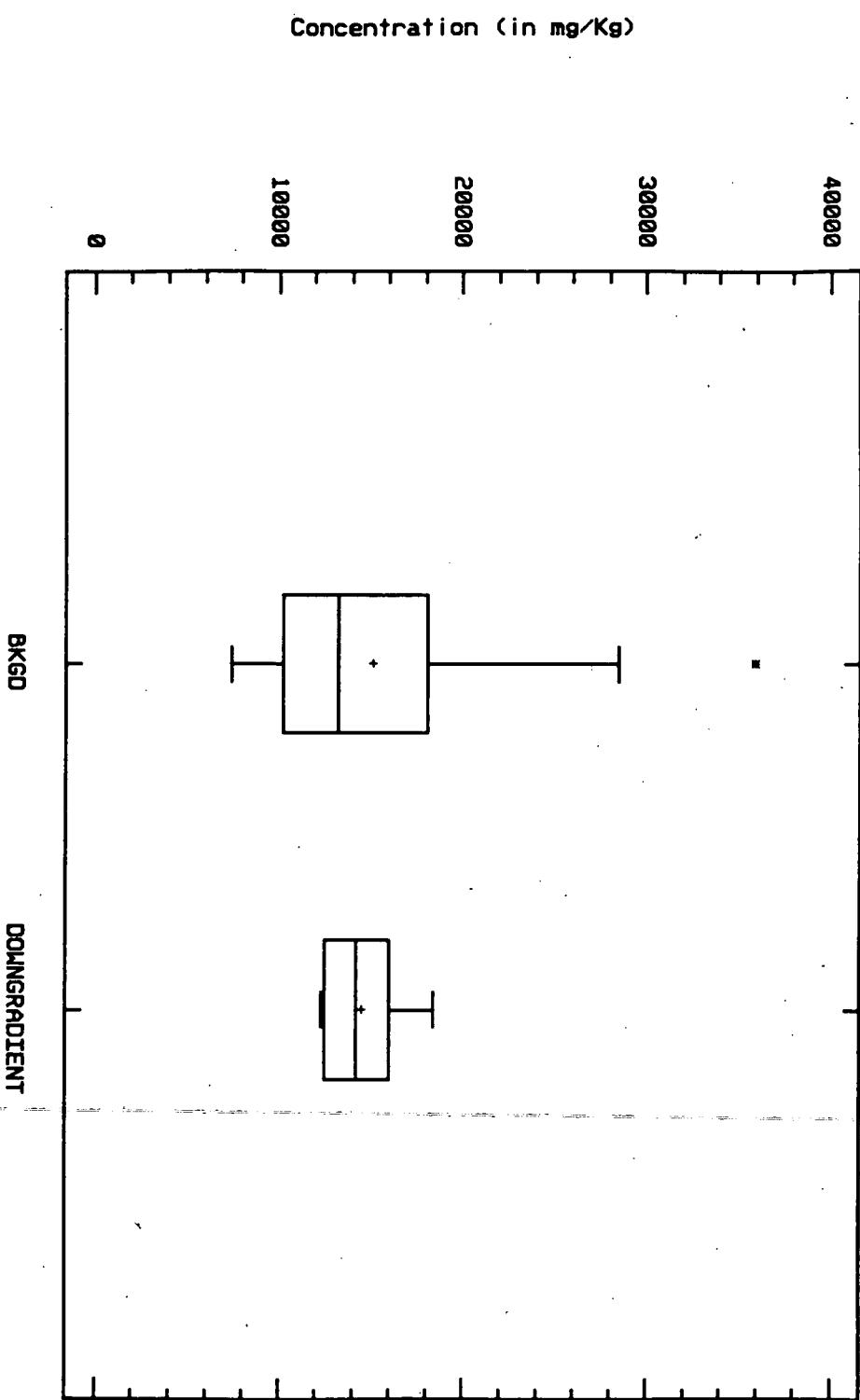
Gross Alpha: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc



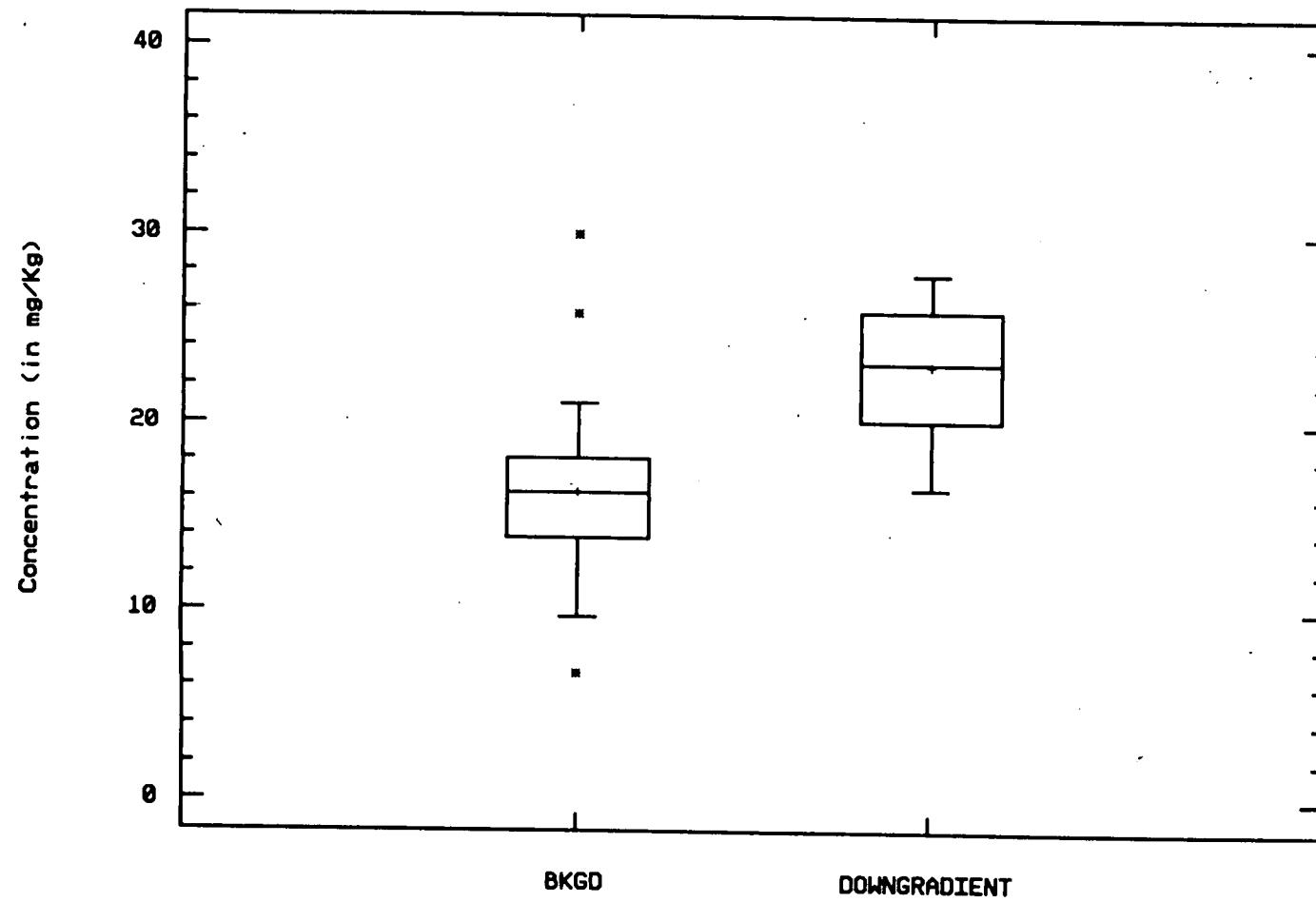
Gross Beta: Subsurface Soils
Background Qc vs. DU7 Downgradient Qc



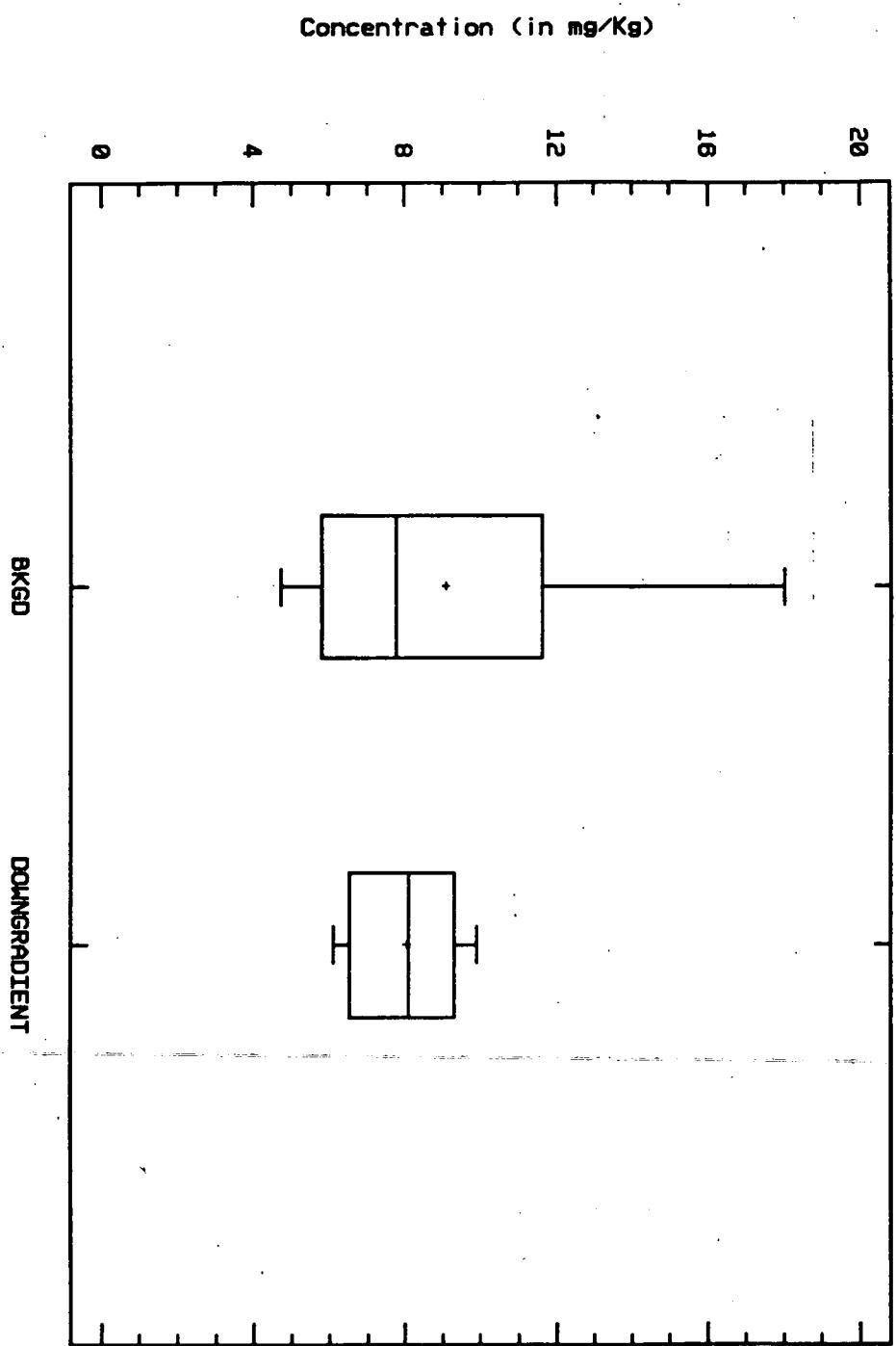
Iron: Subsurface Soils
Background Qc vs. DU7 Downgradient Qc



Lead: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc

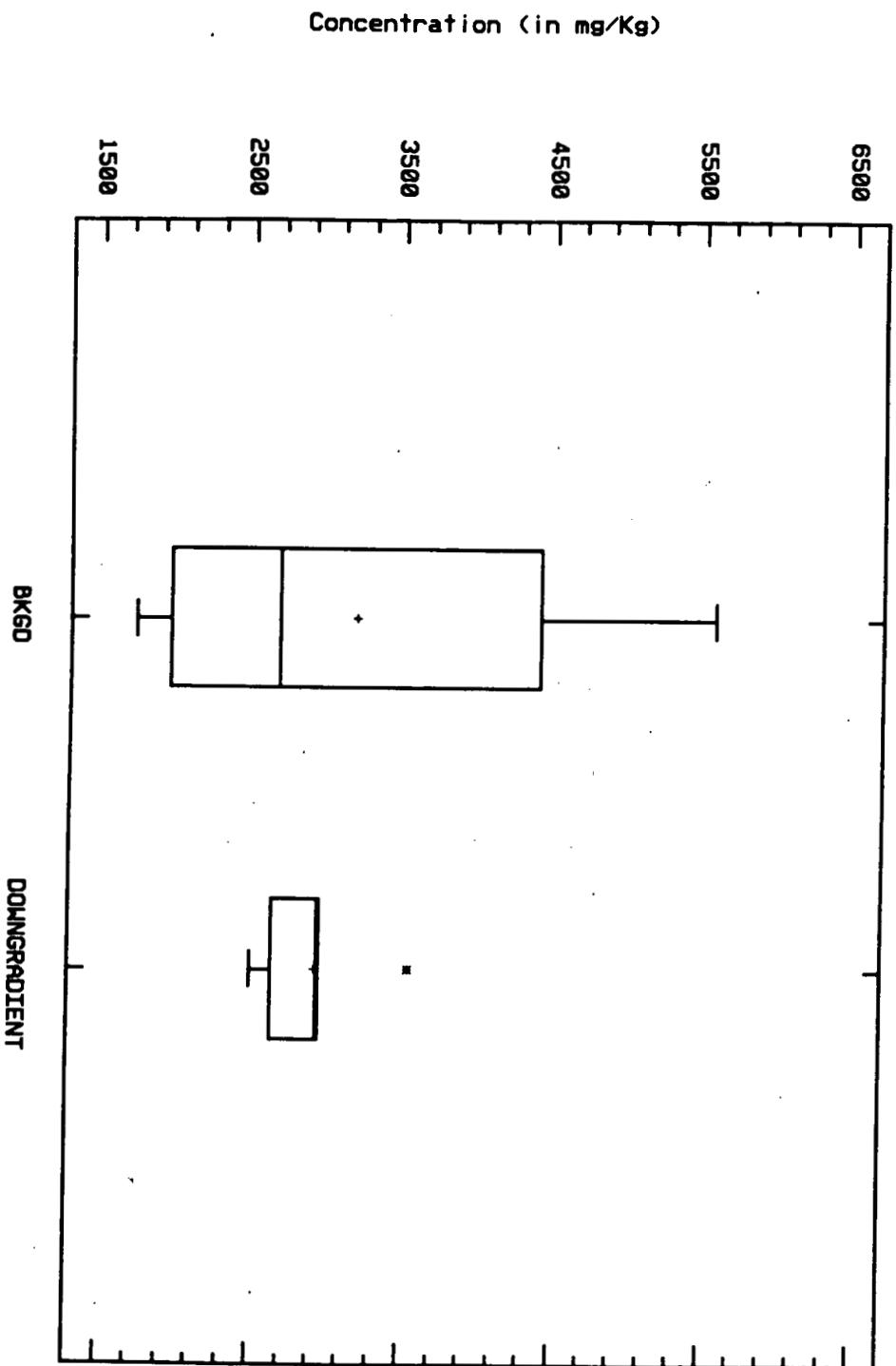


Lithium: Subsurface Soils
Background Qc vs. OUT Downgradient Qc

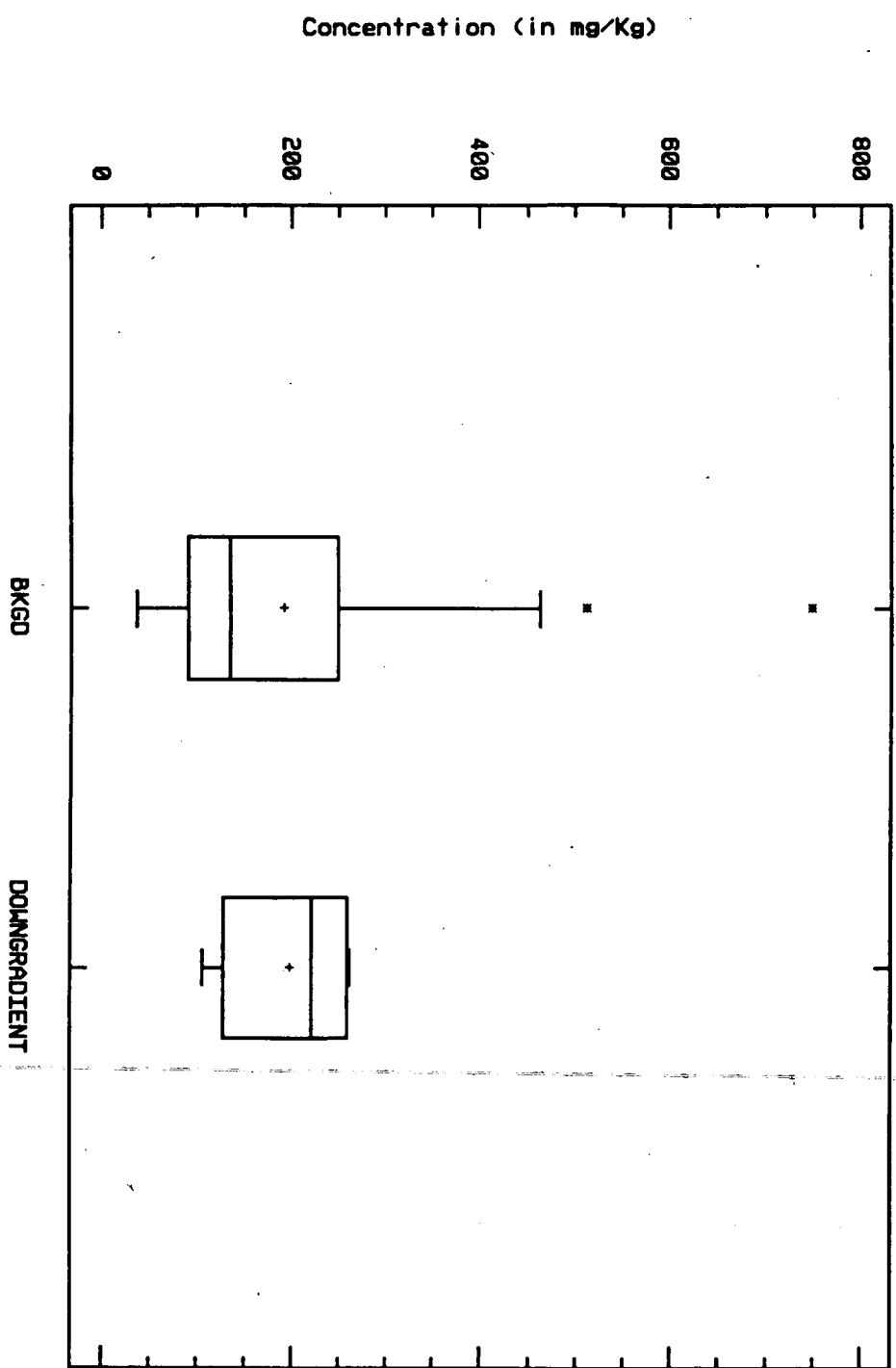


Magnesium: Subsurface Soils

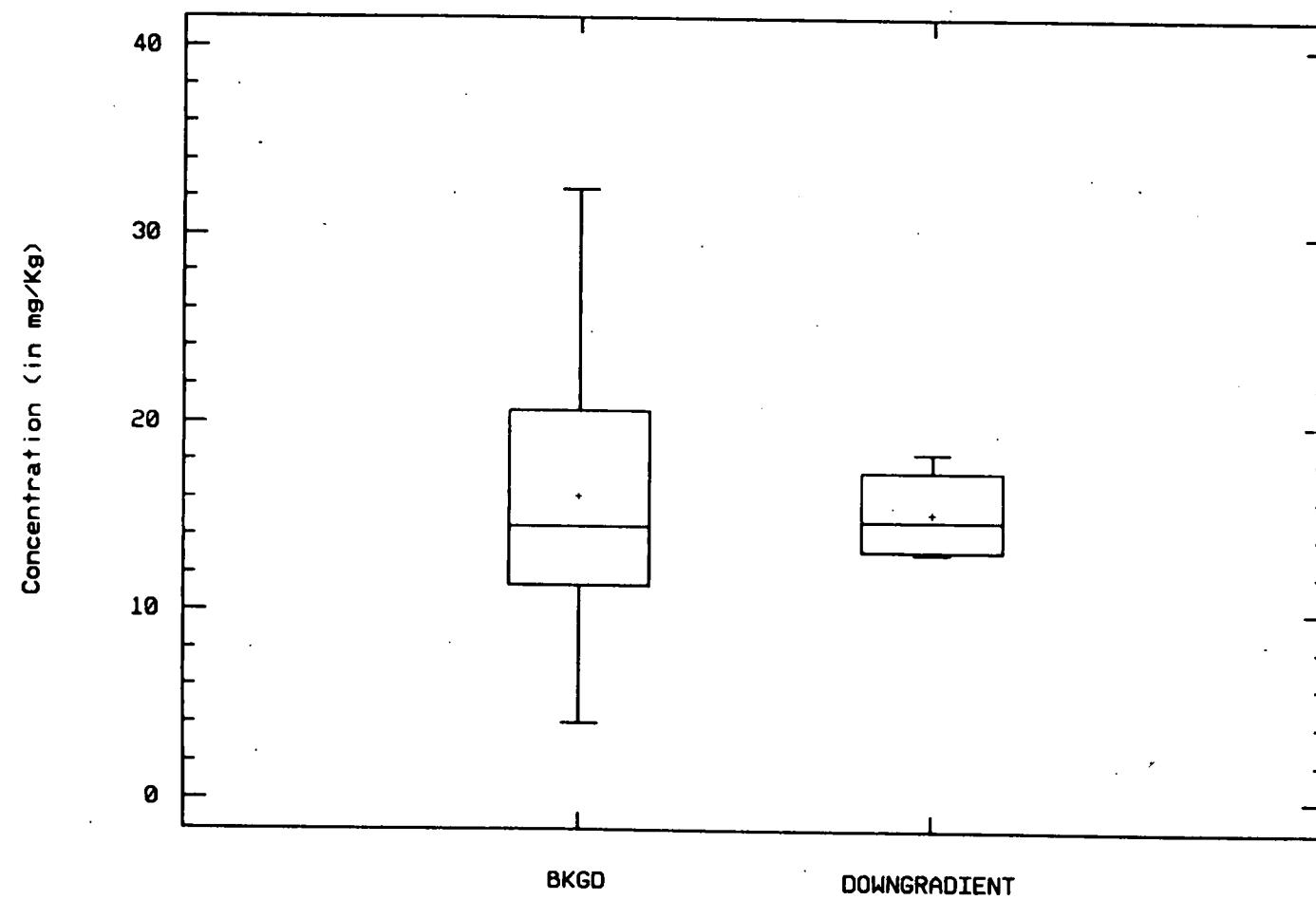
Background Qc vs. OUT Downgradient Qc



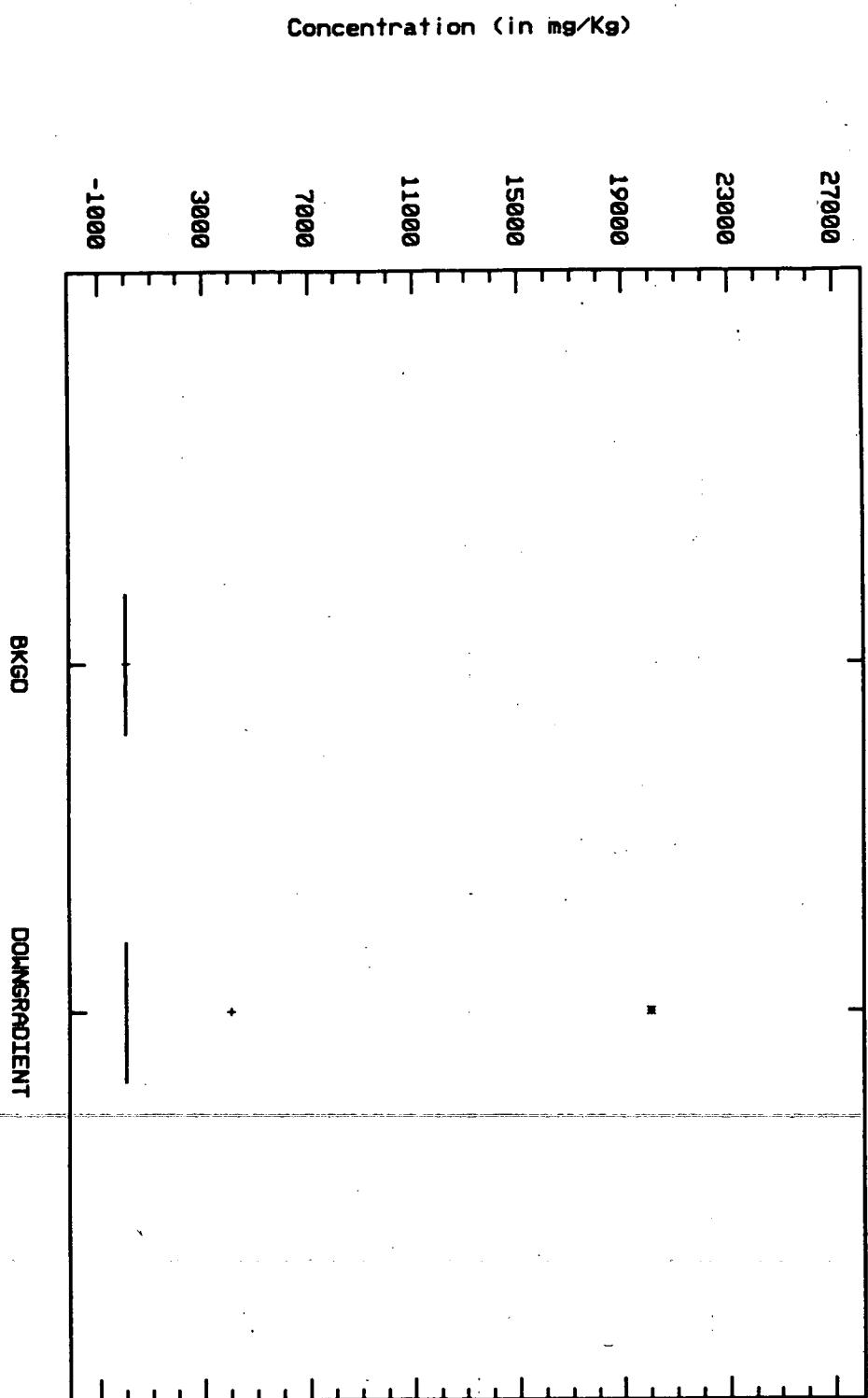
Manganese: Subsurface Soils
Background Qc vs. 017 Downgradient Qc



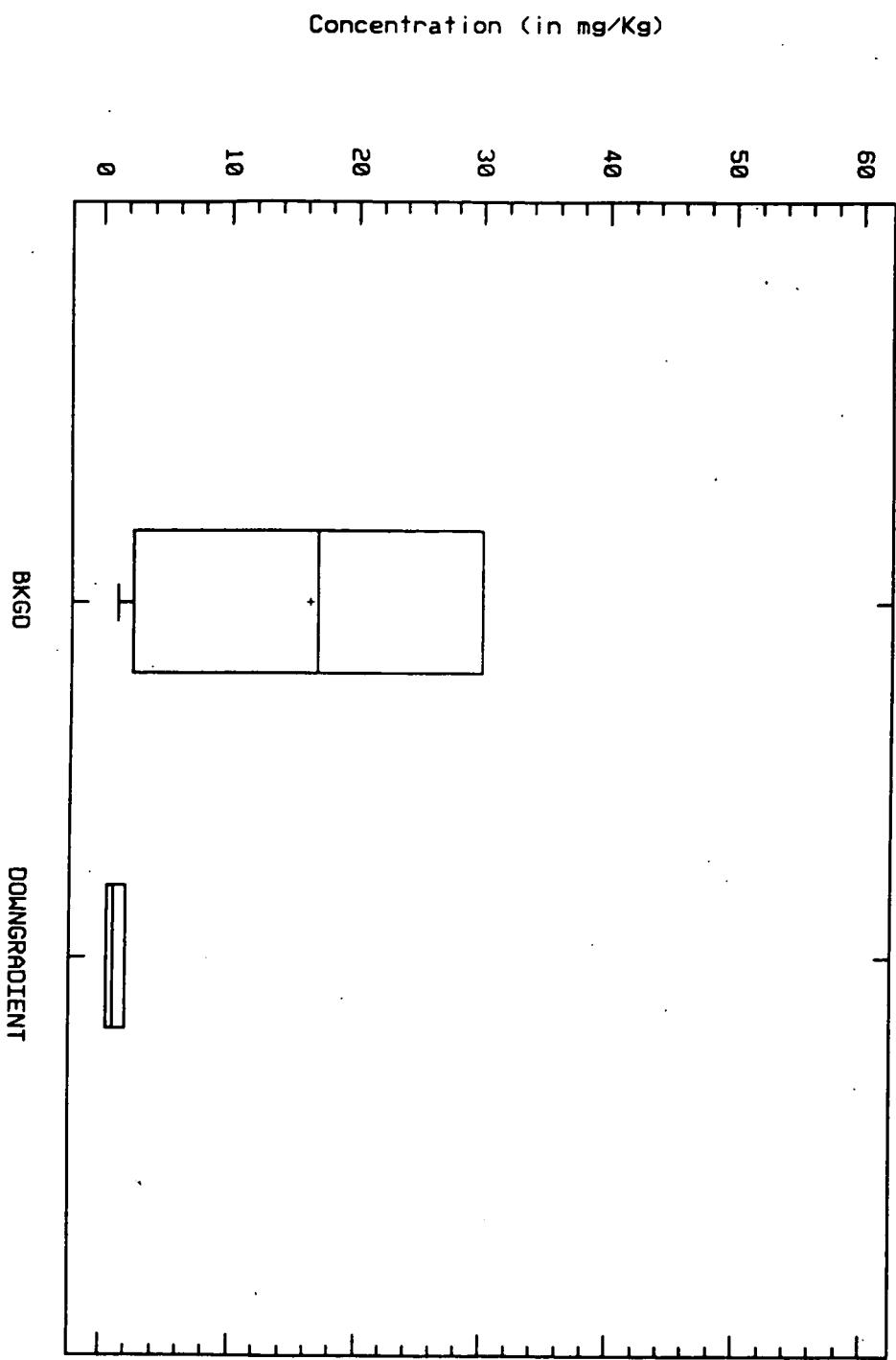
Nickel: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc



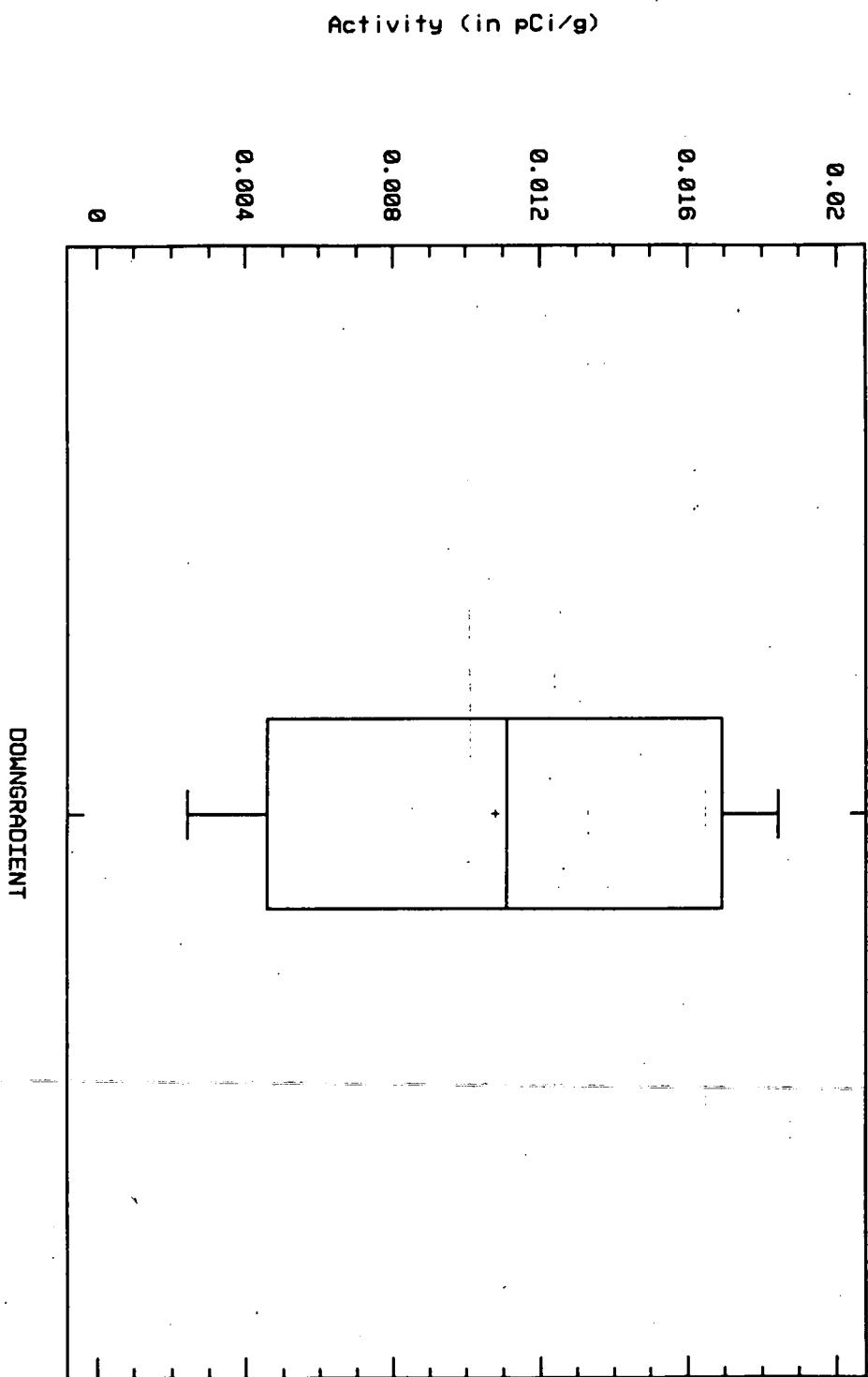
Nitrate/Nitrite: Subsurface Soils
Background Δc vs. OUT Downgradient Δc



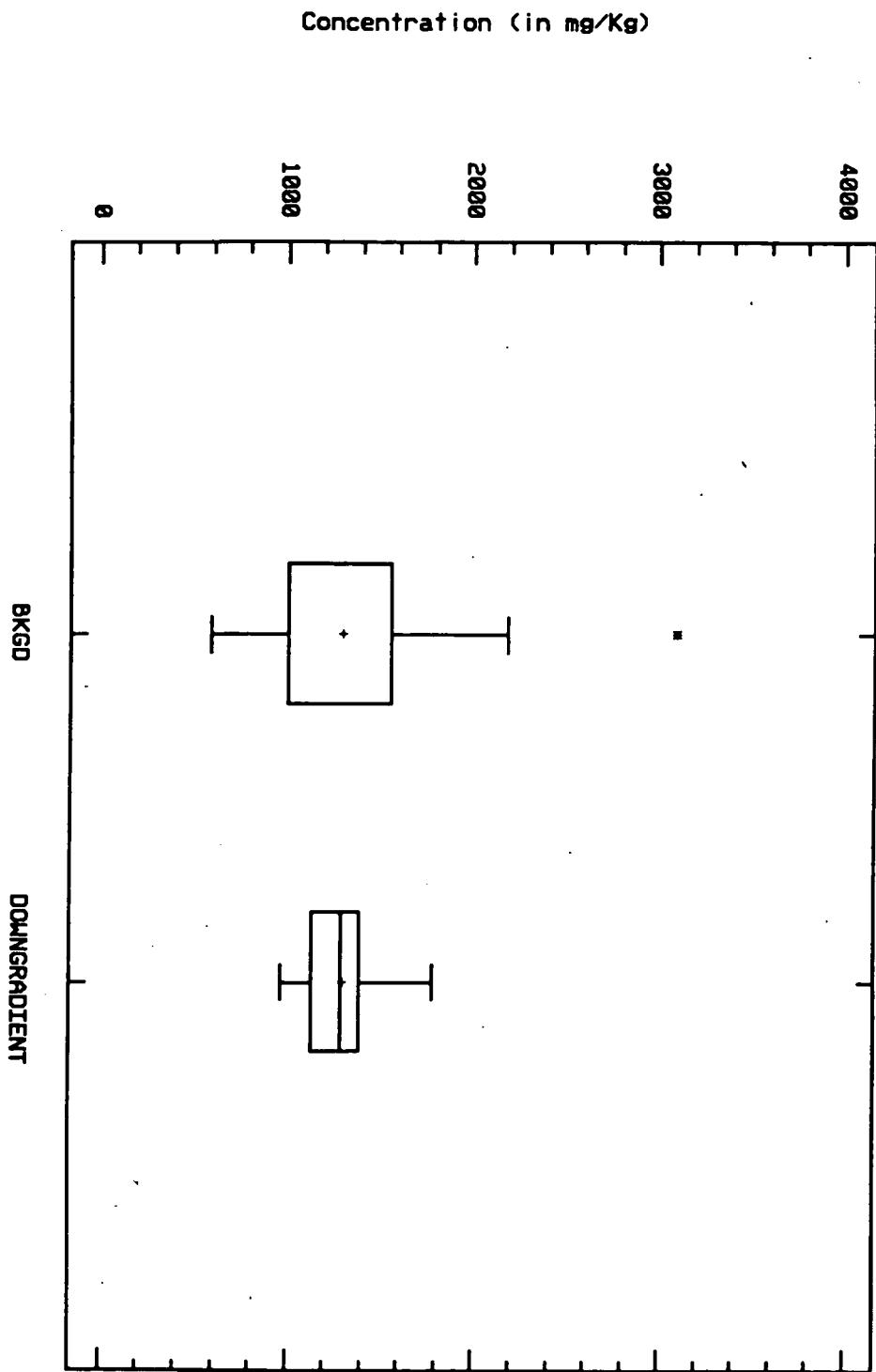
Nitrate/Nitrite: Subsurface Soils
Background Ac vs. OUT Downgradient Ac



Plutonium239/240: Subsurface Soils
Background Qc vs. DU7 Downgradient Qc

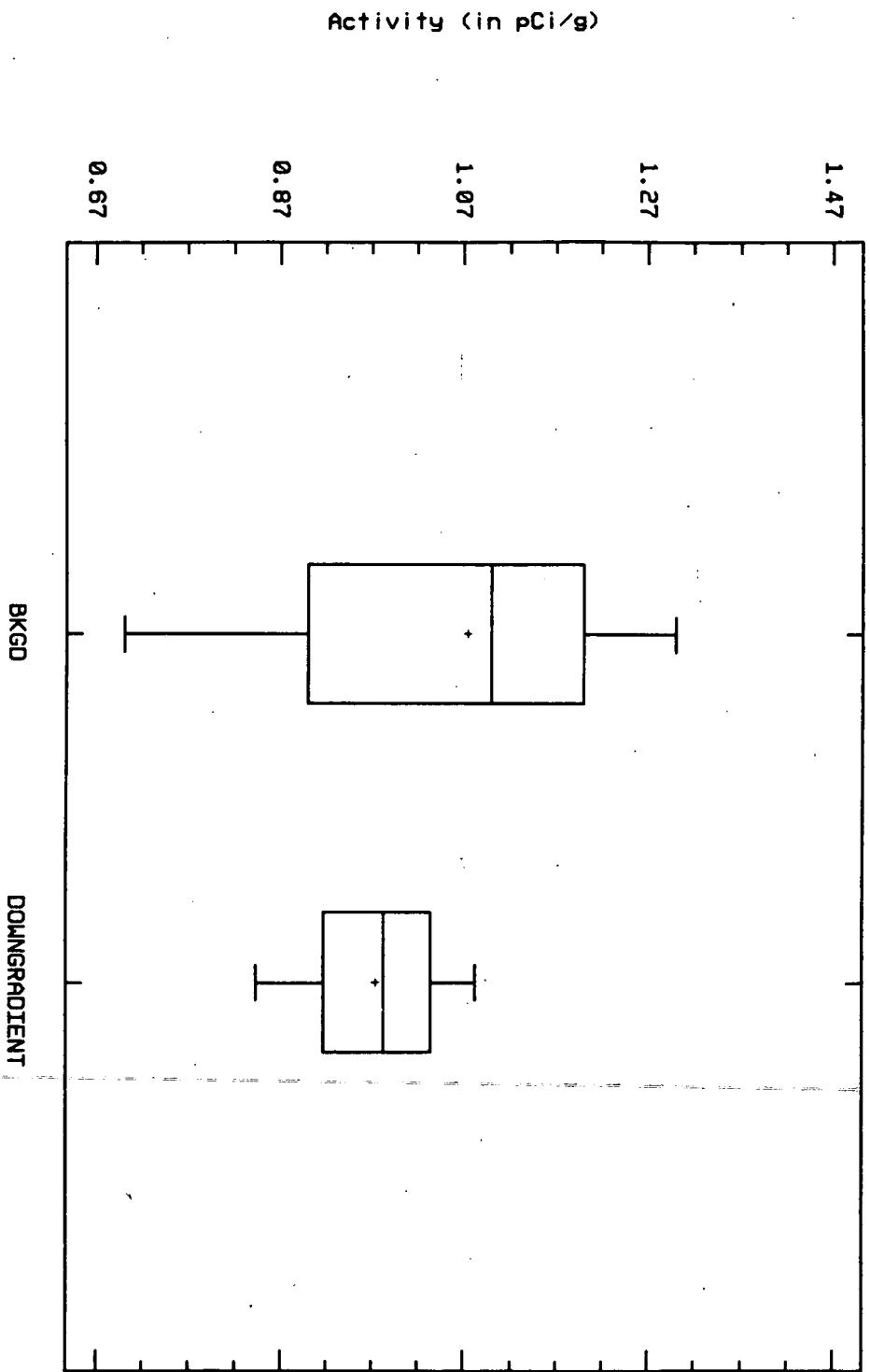


Potassium: Subsurface Soils
Background Qc vs. OUT Downgradient Qc

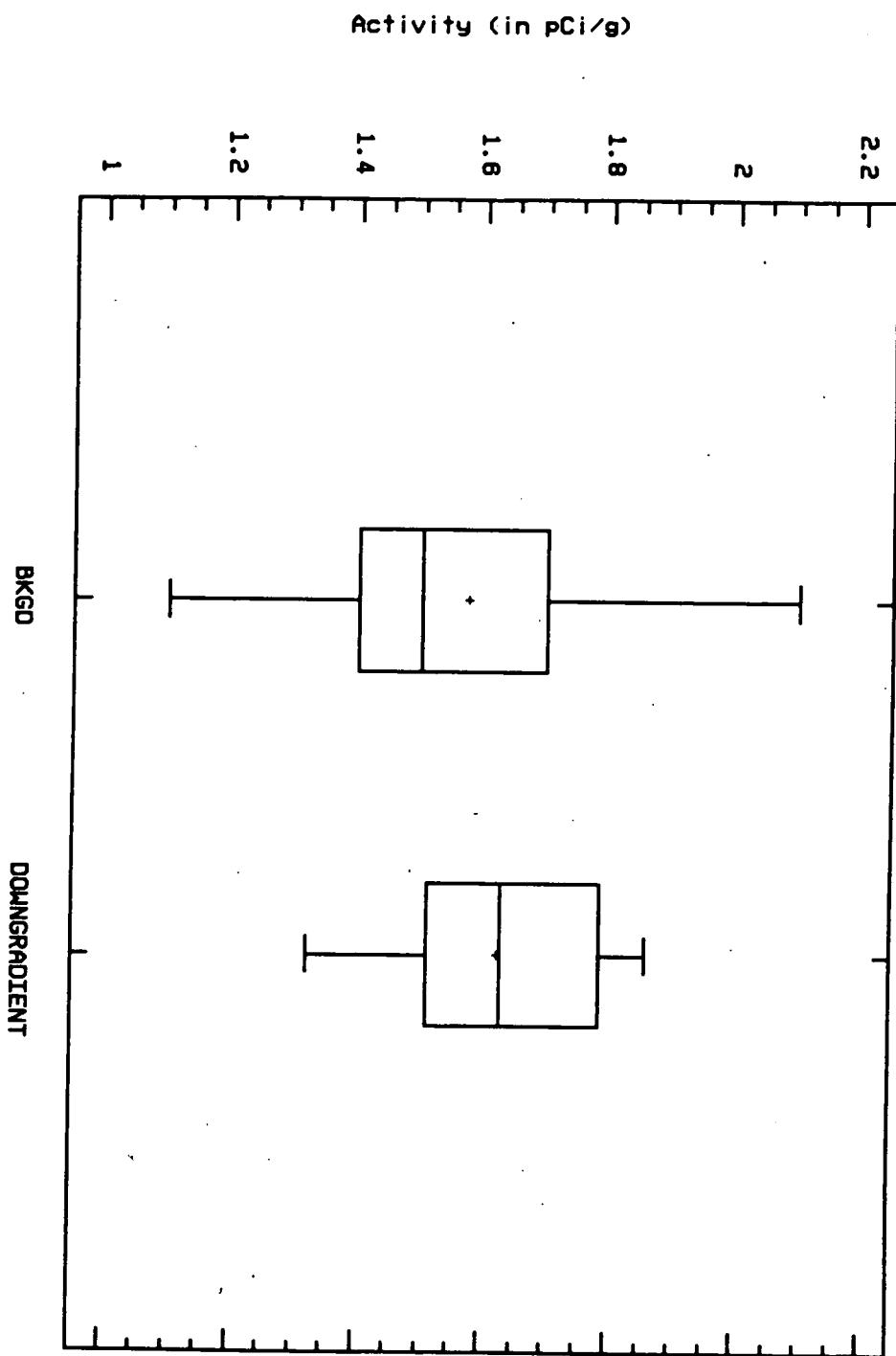


Radium-226: Subsurface Soils

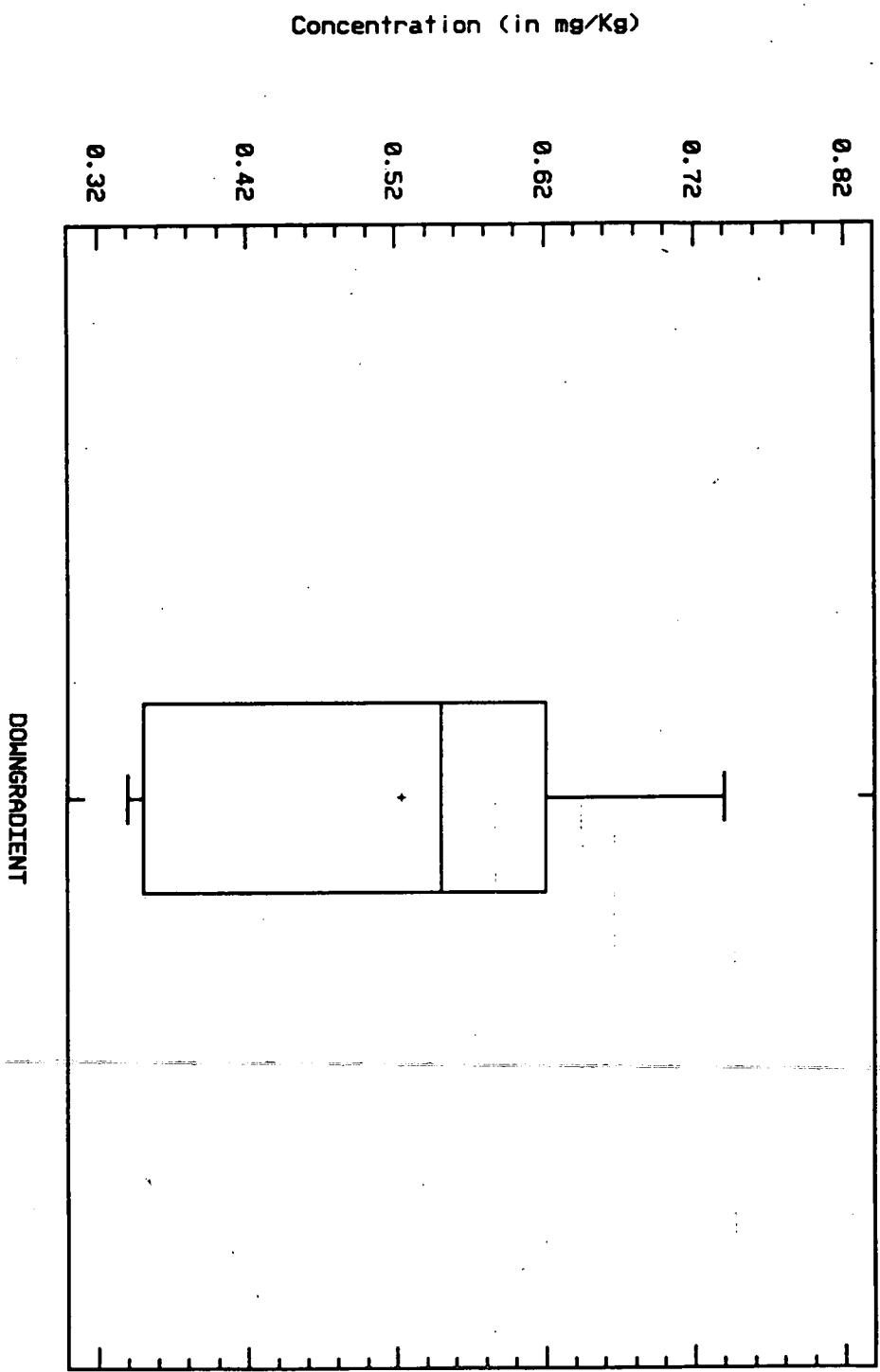
Background Qc vs. DU7 Downgradient Qc



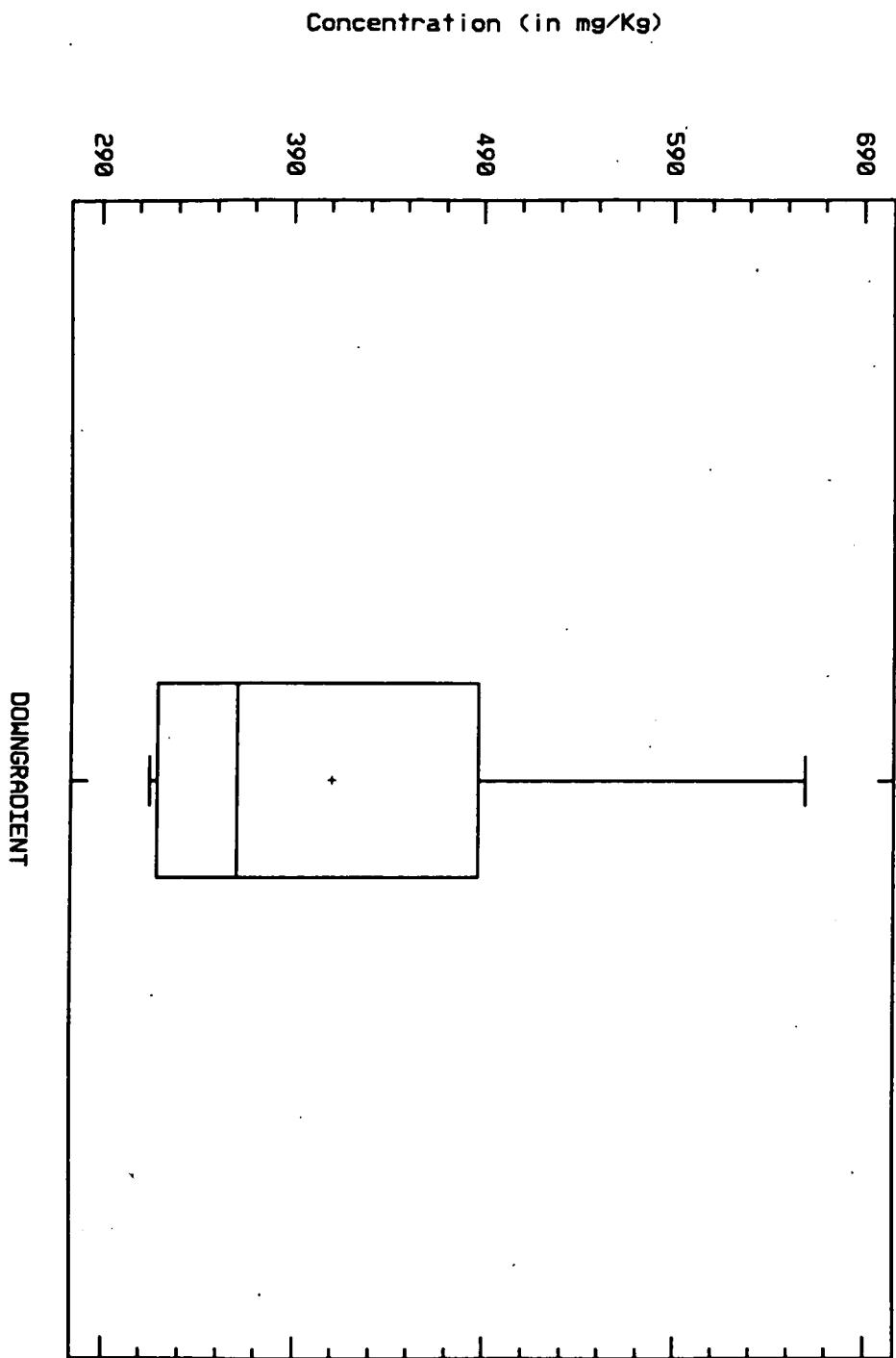
Radium-228: Subsurface Soils
Background Δ c vs. OUT Downgradient Δ c



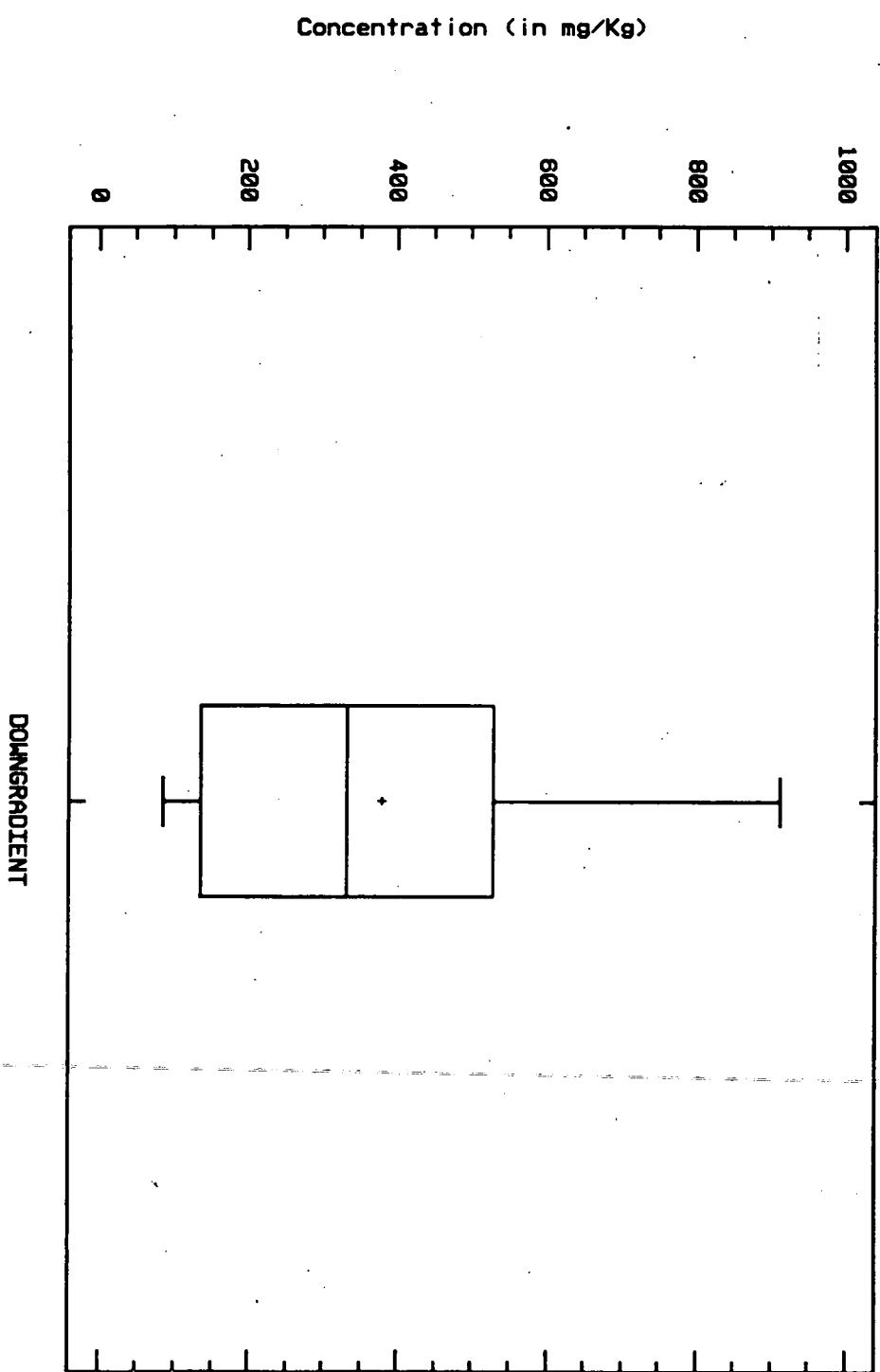
Selenium: Subsurface Soils
Background Q_c vs. OUT Downgradient Q_c



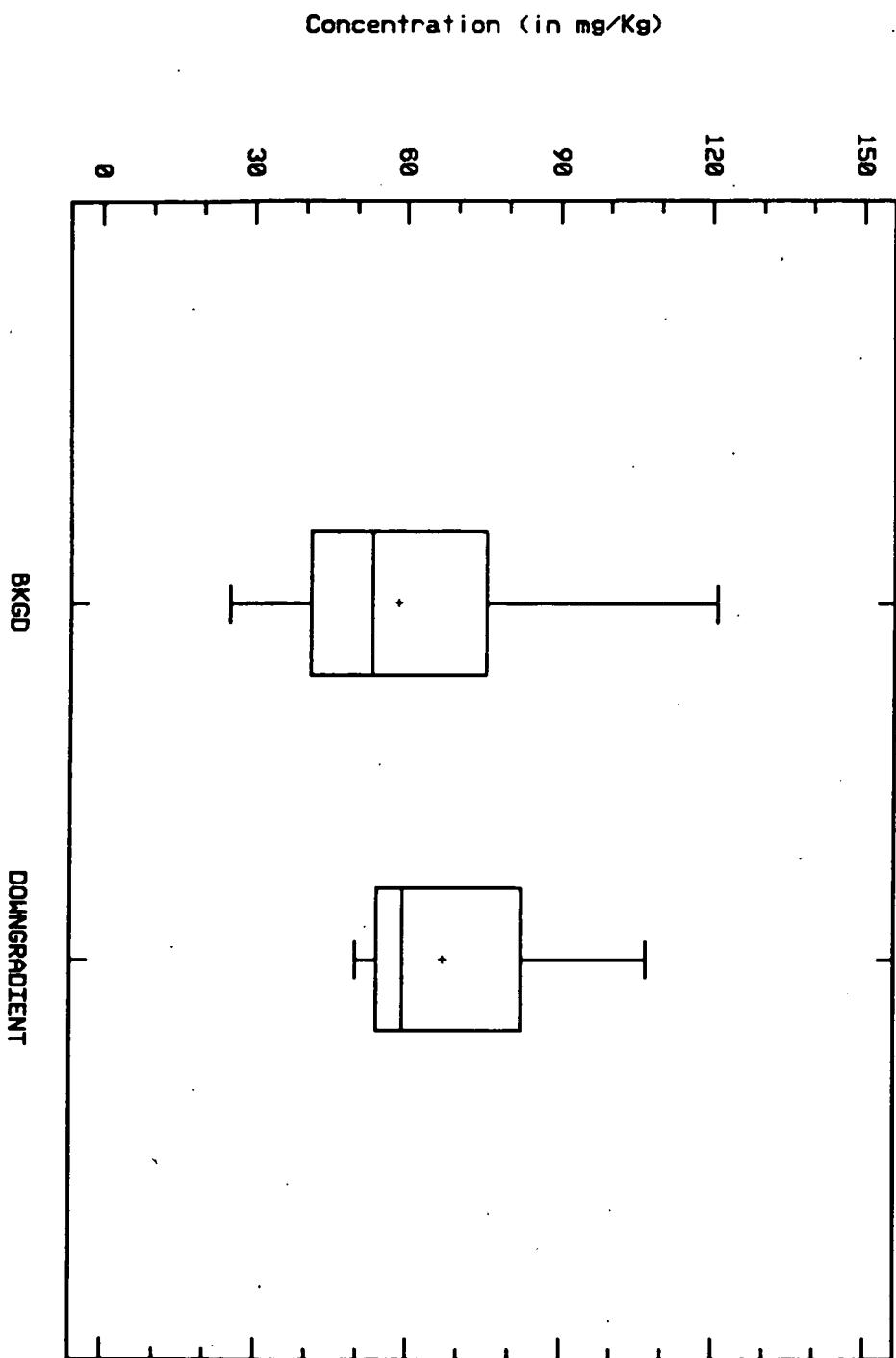
Silicon: Subsurface Soils
Background Δc vs. OUT Downgradient Δc



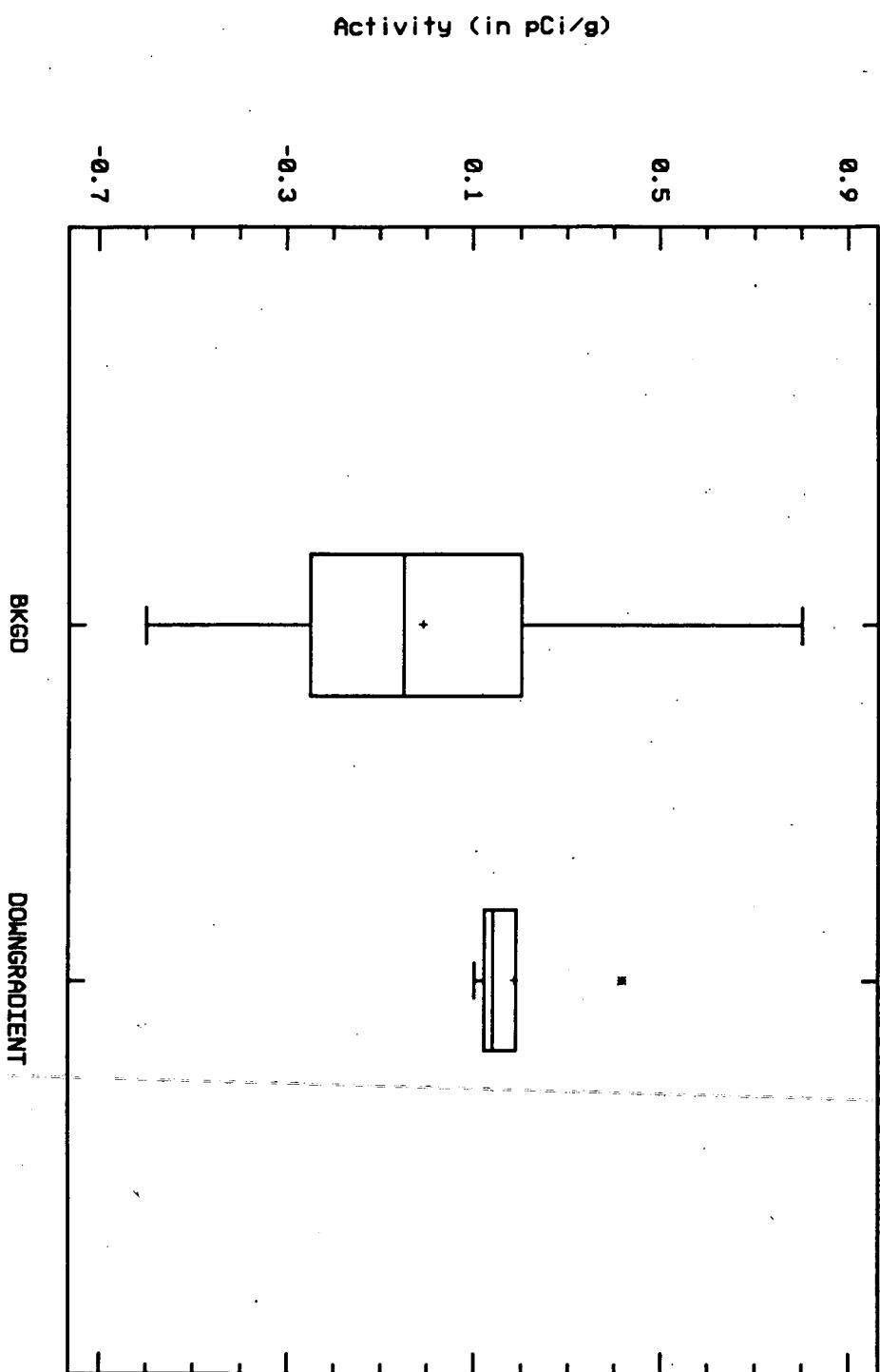
Sodium: Subsurface Soils
Background Qc vs. D07 Downgradient Qc



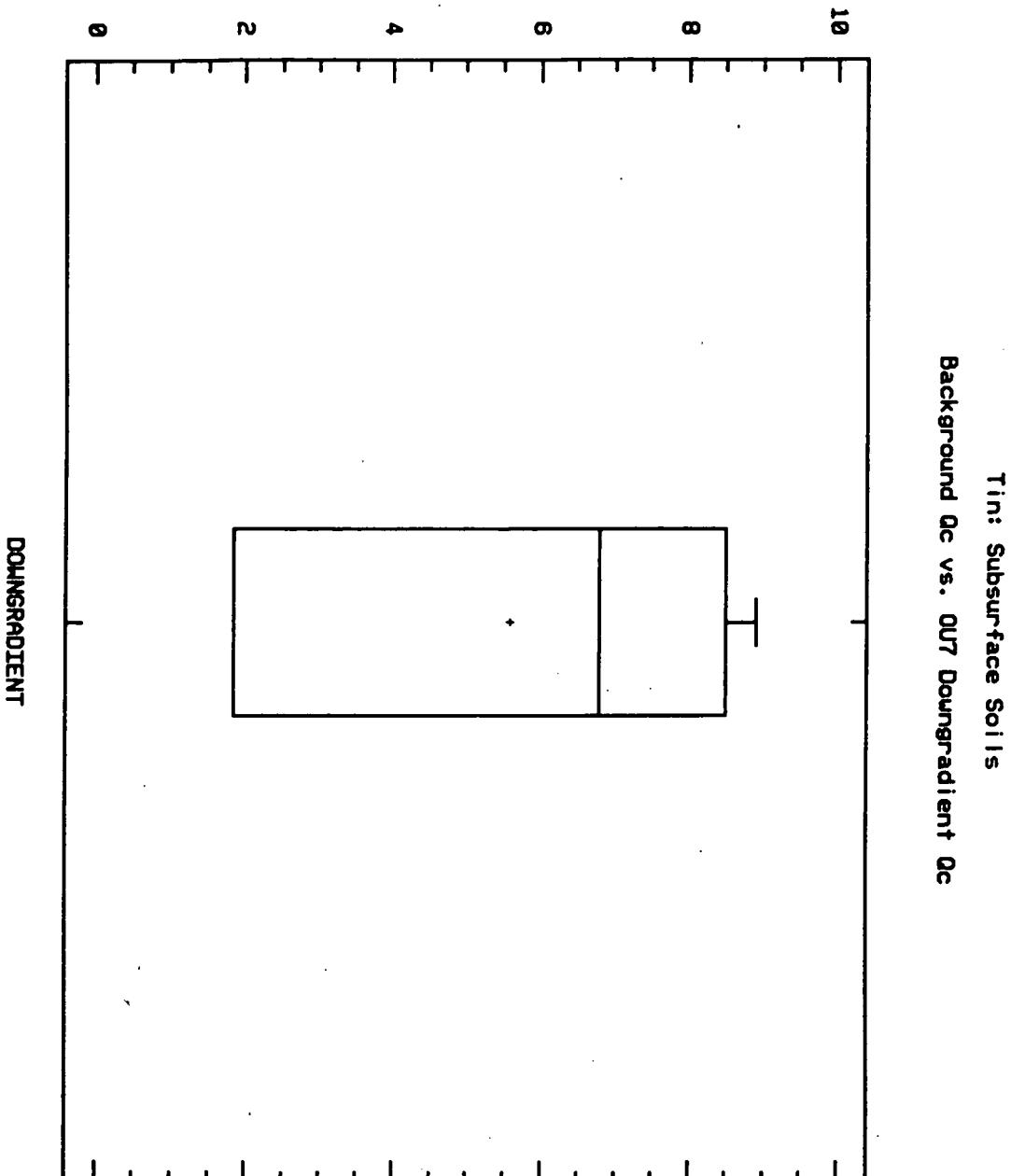
Strontium: Subsurface Soils
Background Qc vs. OUT Downgradient Qc



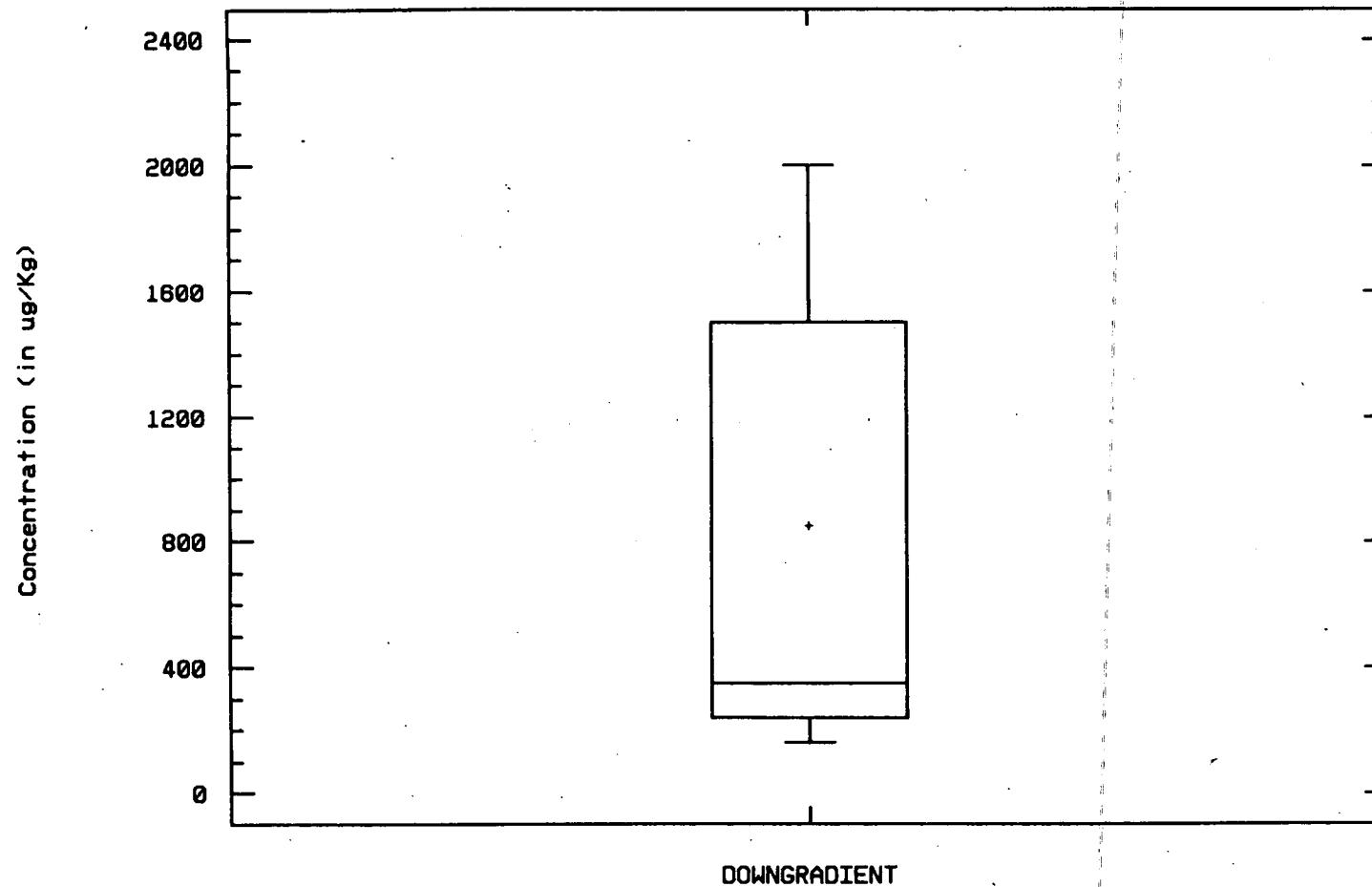
Strontium-89,90: Subsurface Soils
Background Qc vs. OUT Downgradient Qc



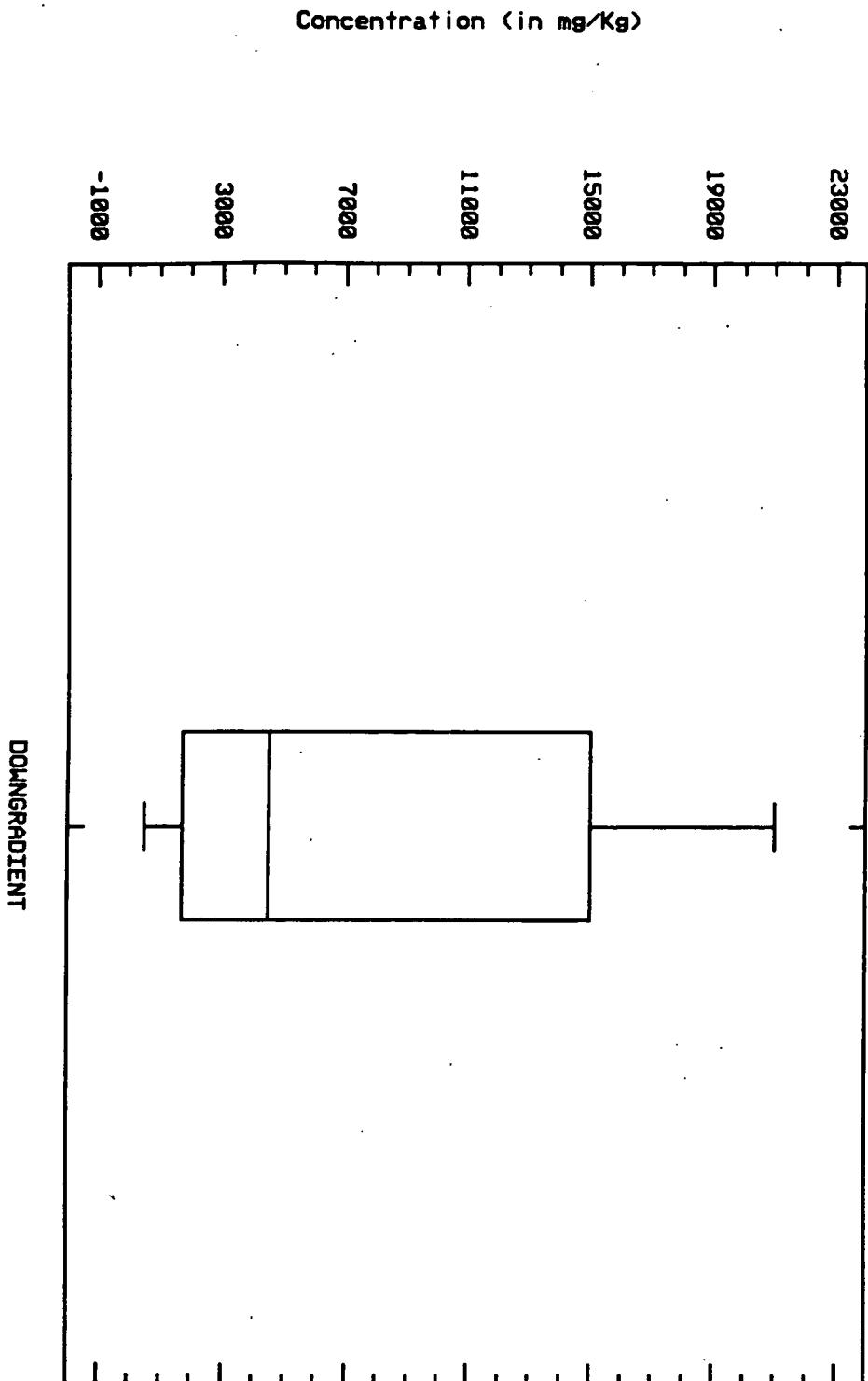
Concentration (in mg/Kg)



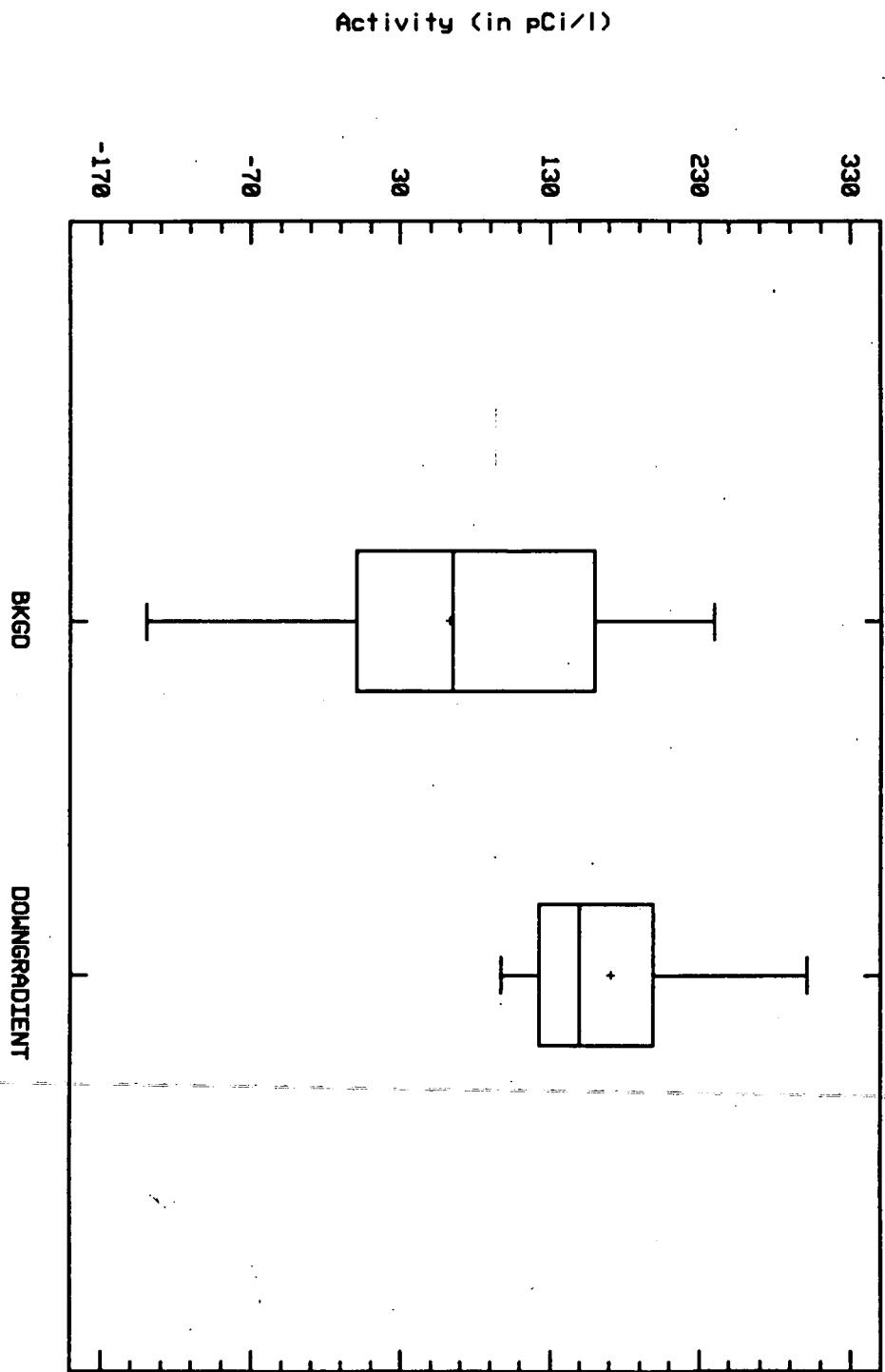
Toluene: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc



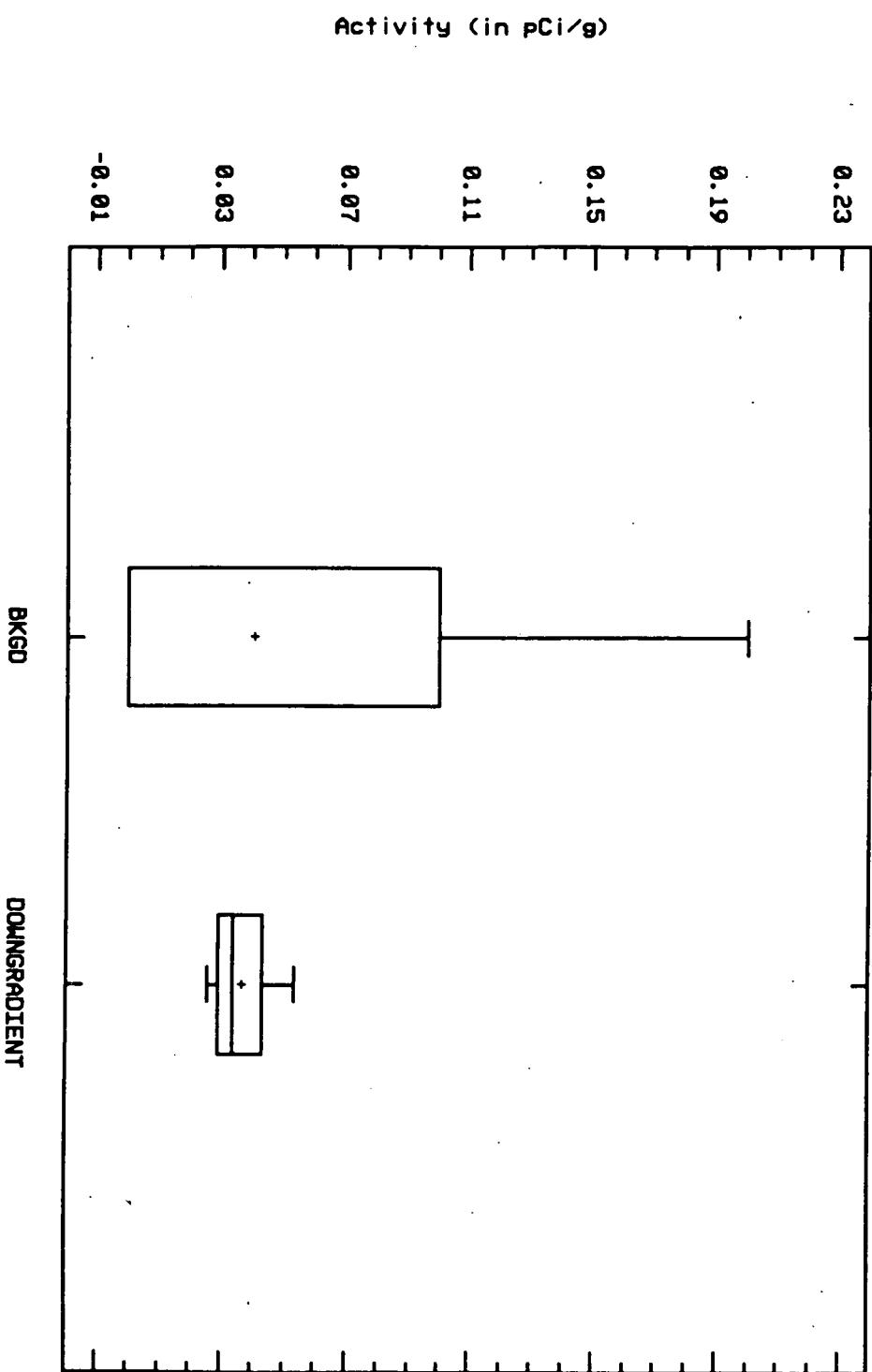
Total Organic Carbon: Subsurface Soils
Background ΔC vs. OUT Downgradient ΔC



Tritium: Subsurface Soils
Background Qc vs. OUT Downgradient Qc

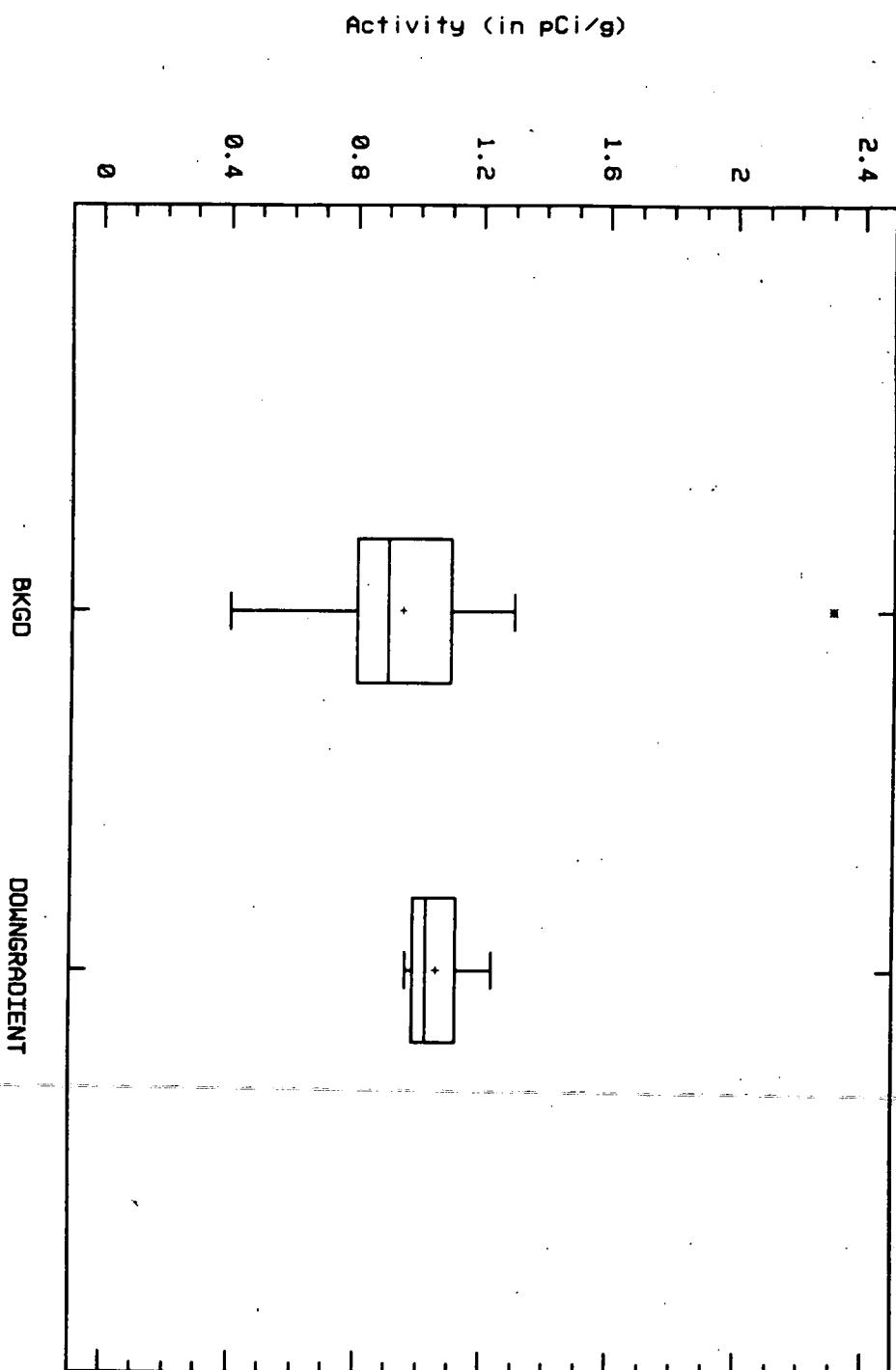


Uranium-235: Subsurface Soils
Background Ac vs. OUT Downgradient Ac

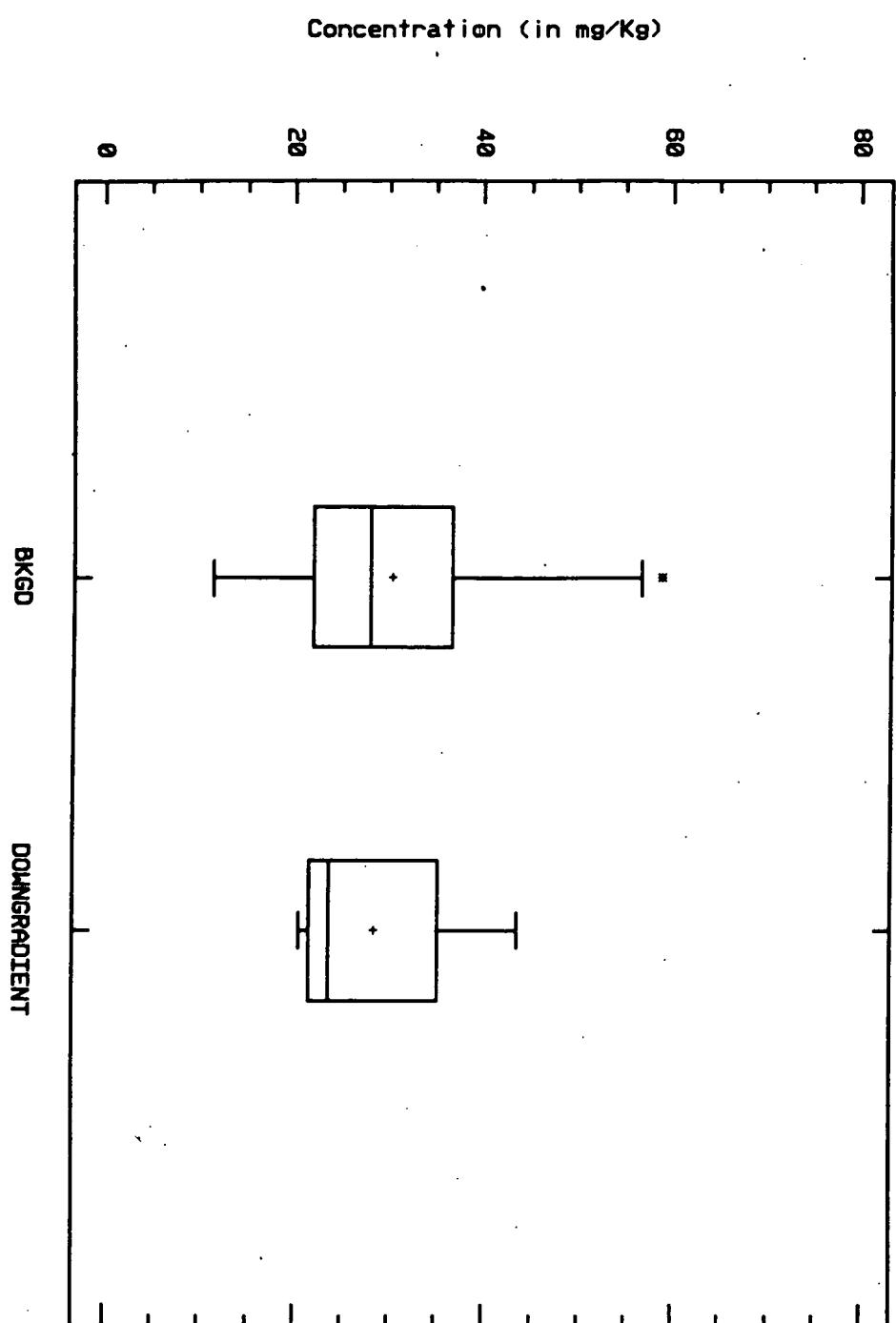


Uranium-238: Subsurface Soils

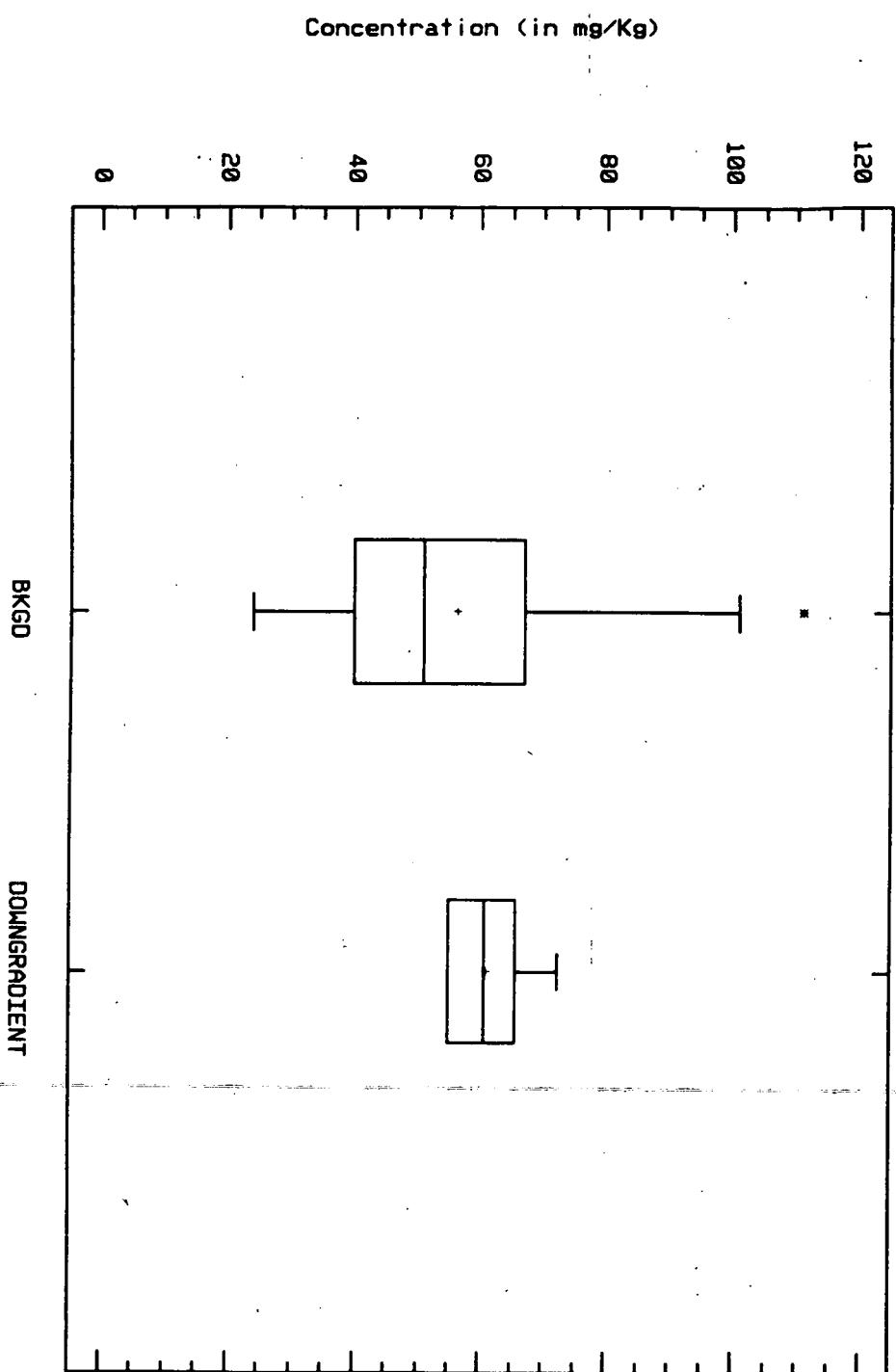
Background Qc vs. OU7 Downgradient Qc



Vanadium: Subsurface Soils
Background Qc vs. OU7 Downgradient Qc

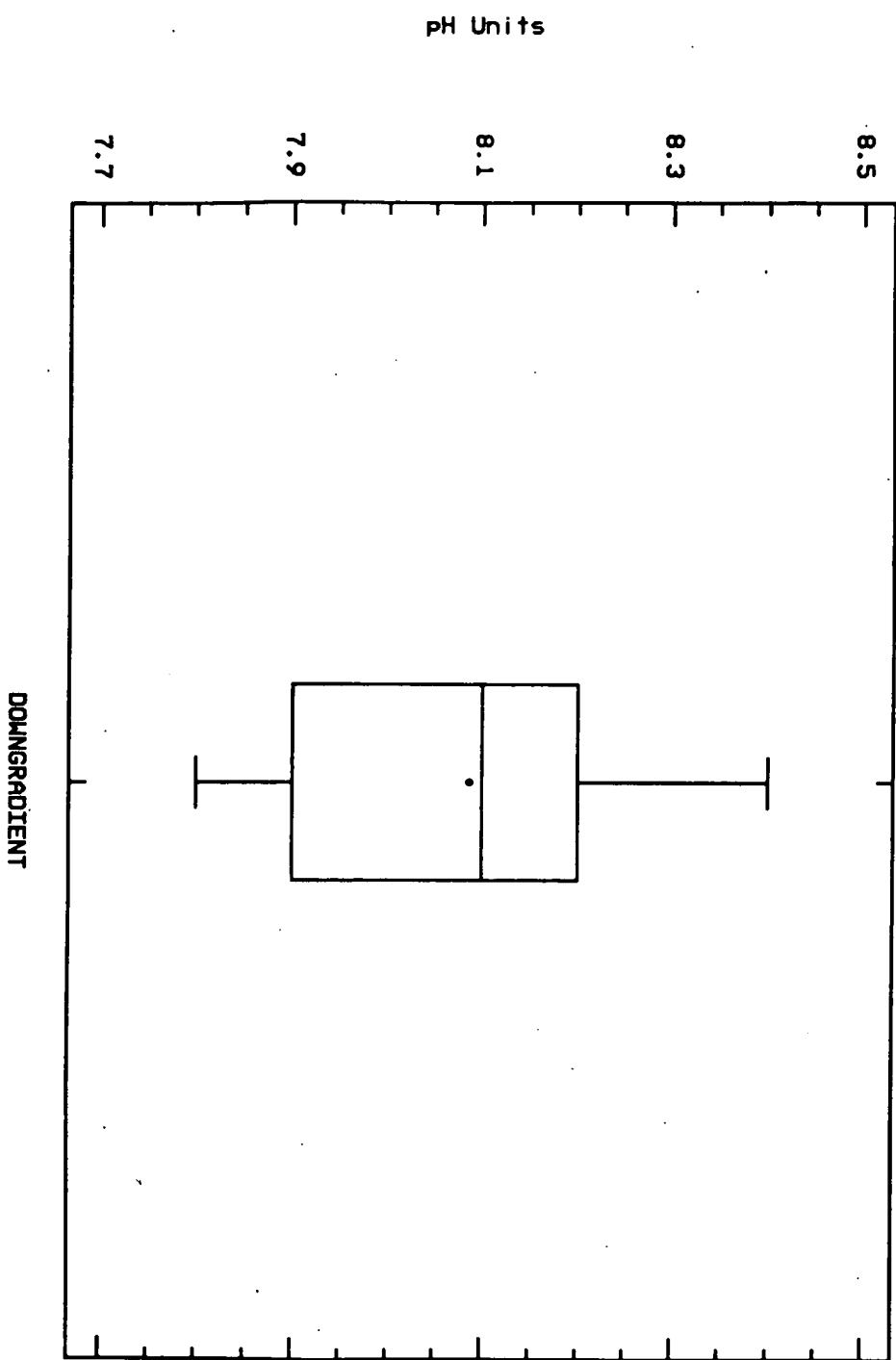


Zinc: Subsurface Soils
Background Qc vs. OUT Downgradient Qc



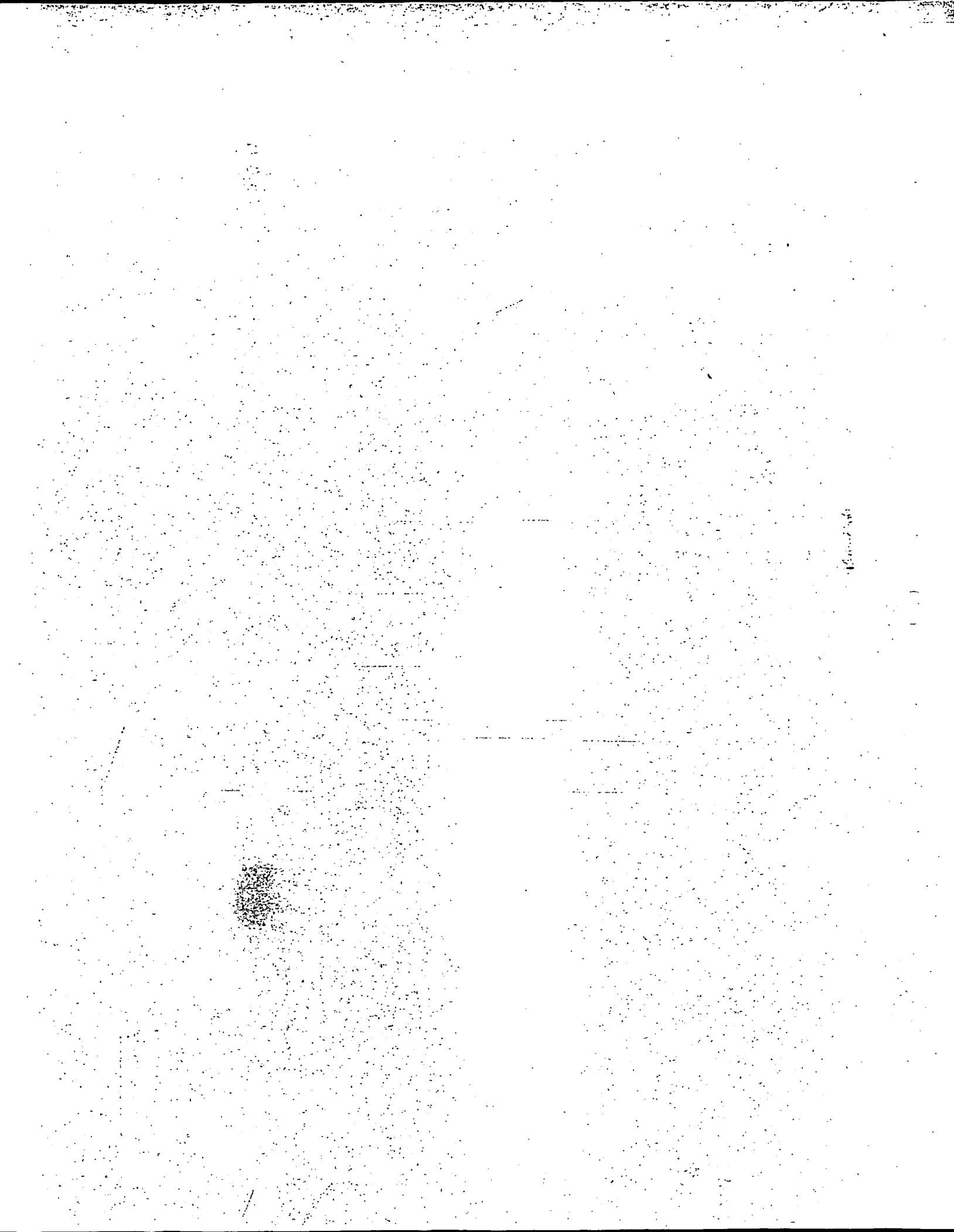
pH: Subsurface Soils

Background Qc vs. OUT Downgradient Qc

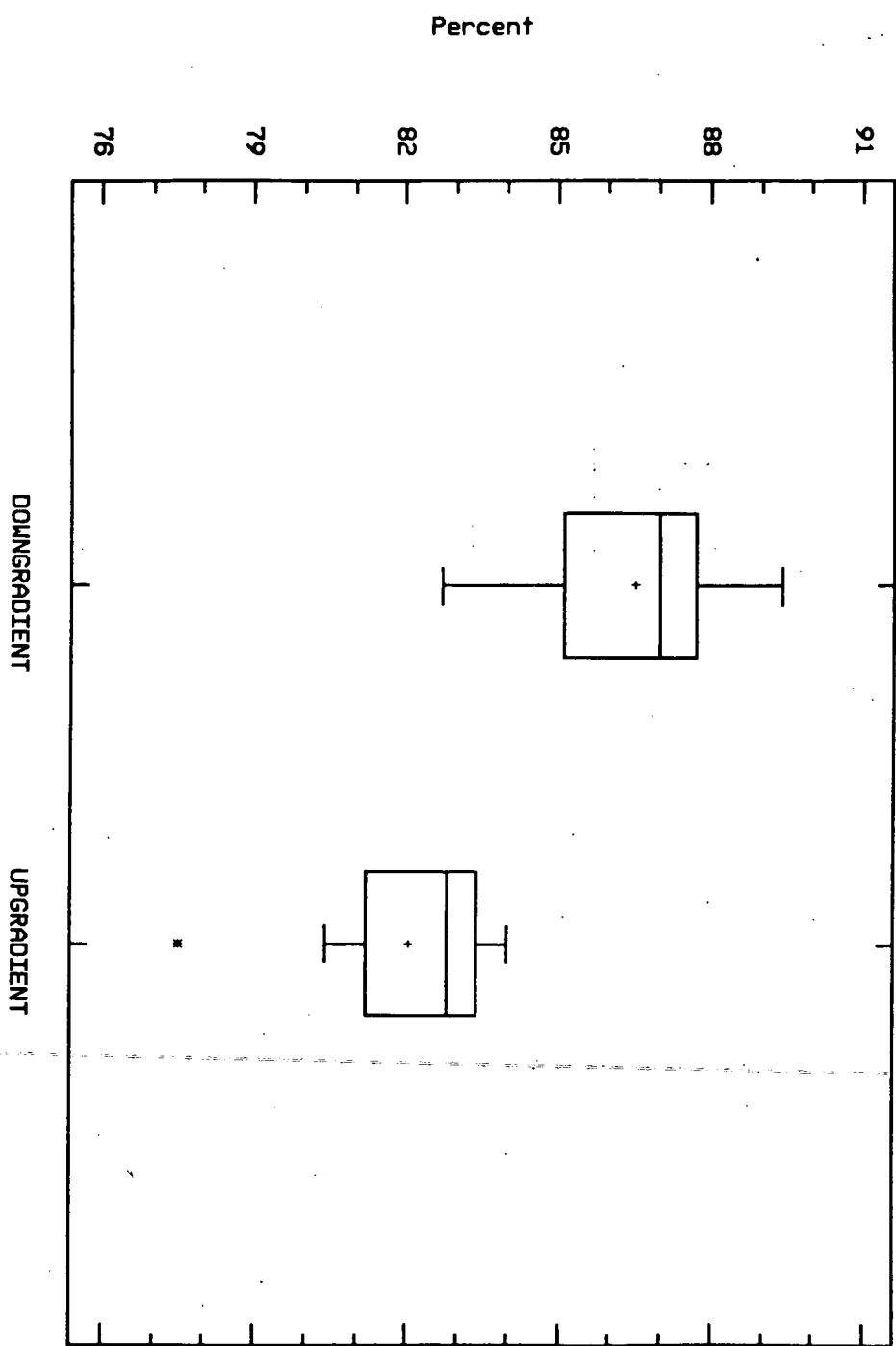


Subsurface Geologic Materials

Background vs. OU 7 KaKl(w)

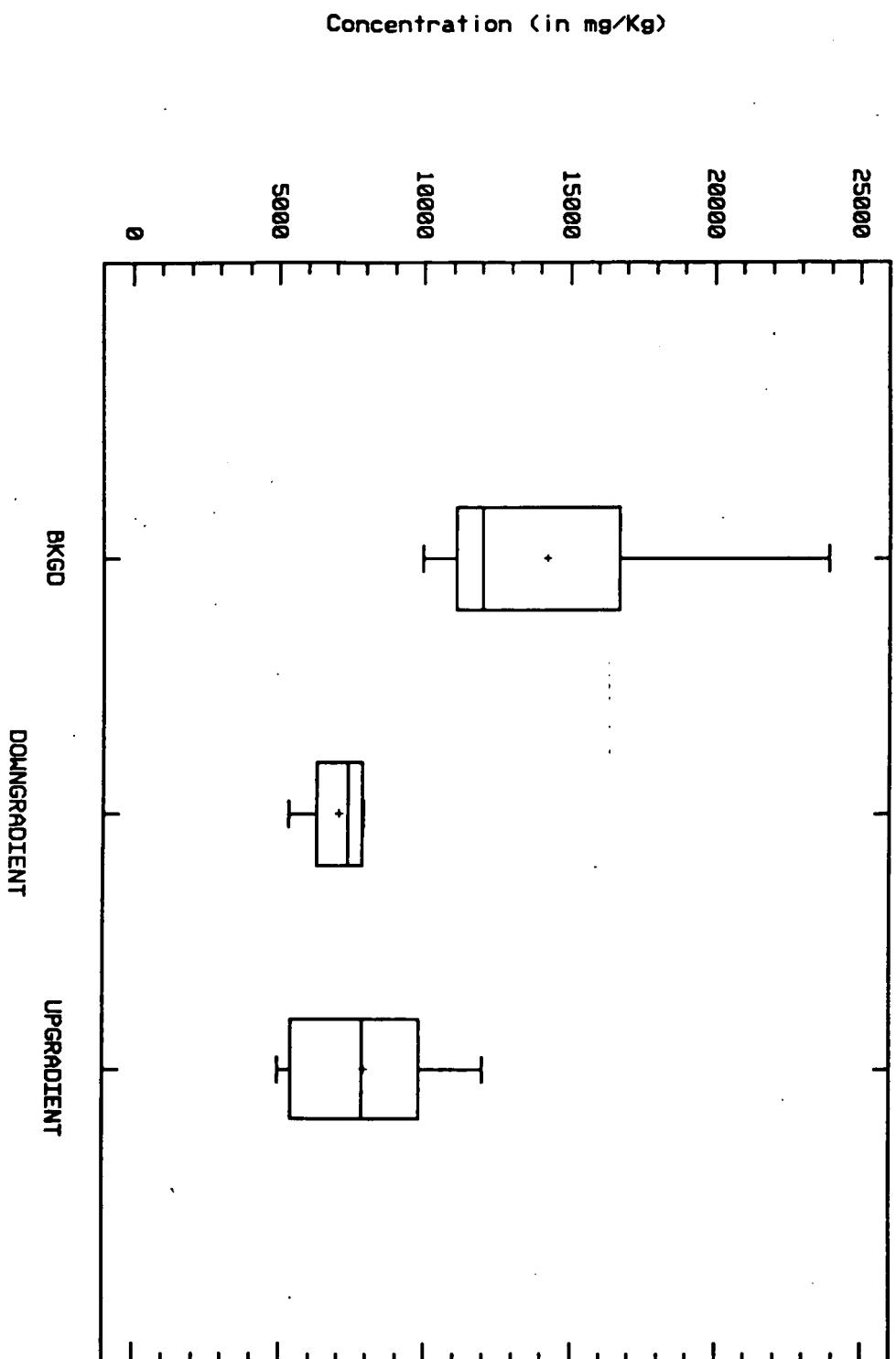


% Solids (Total): Subsurface Soils
Background vs. OUT KAKI (w)

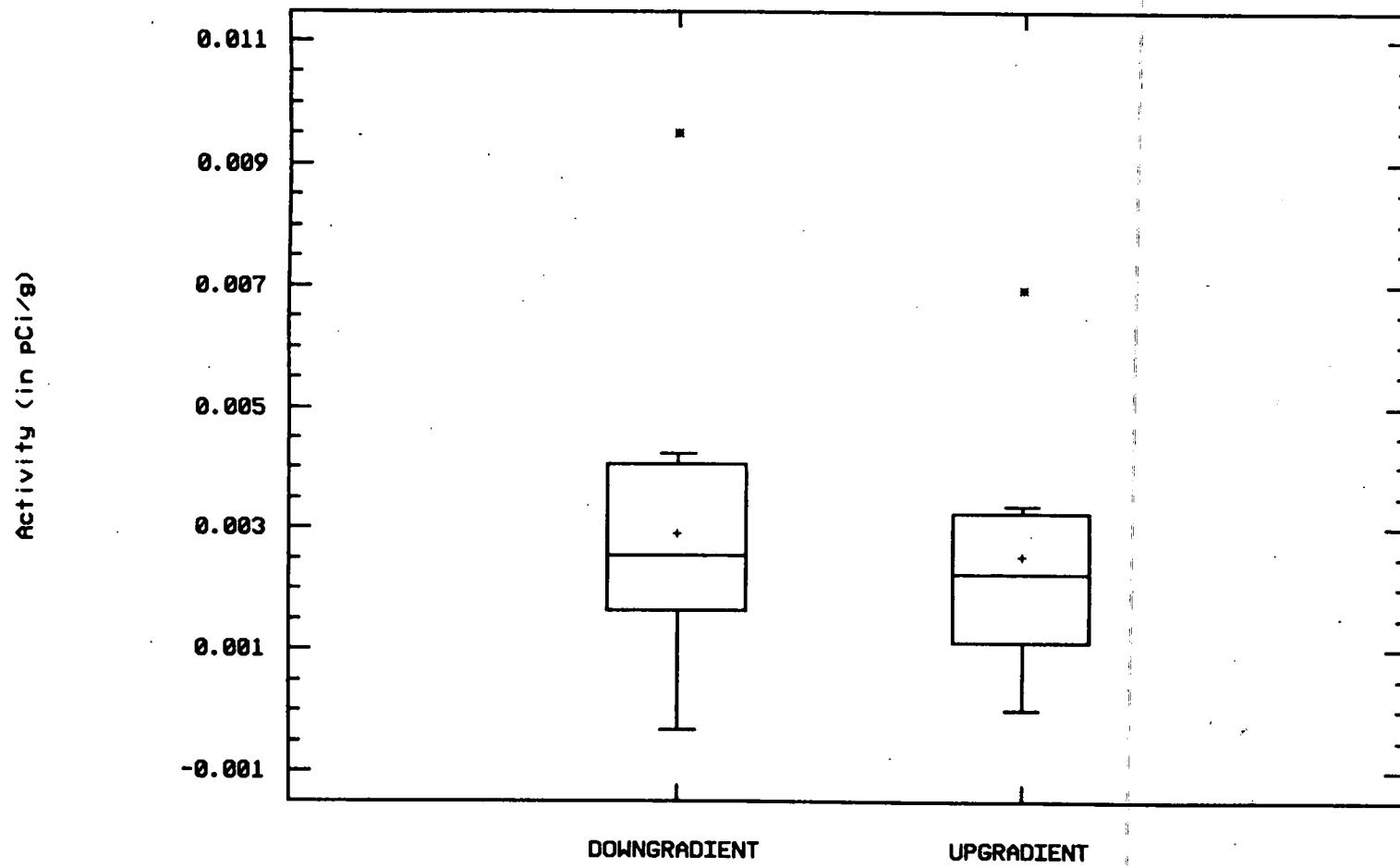


Aluminum (Total): Subsurface Soils

Background vs. OUT Kaki (ω)

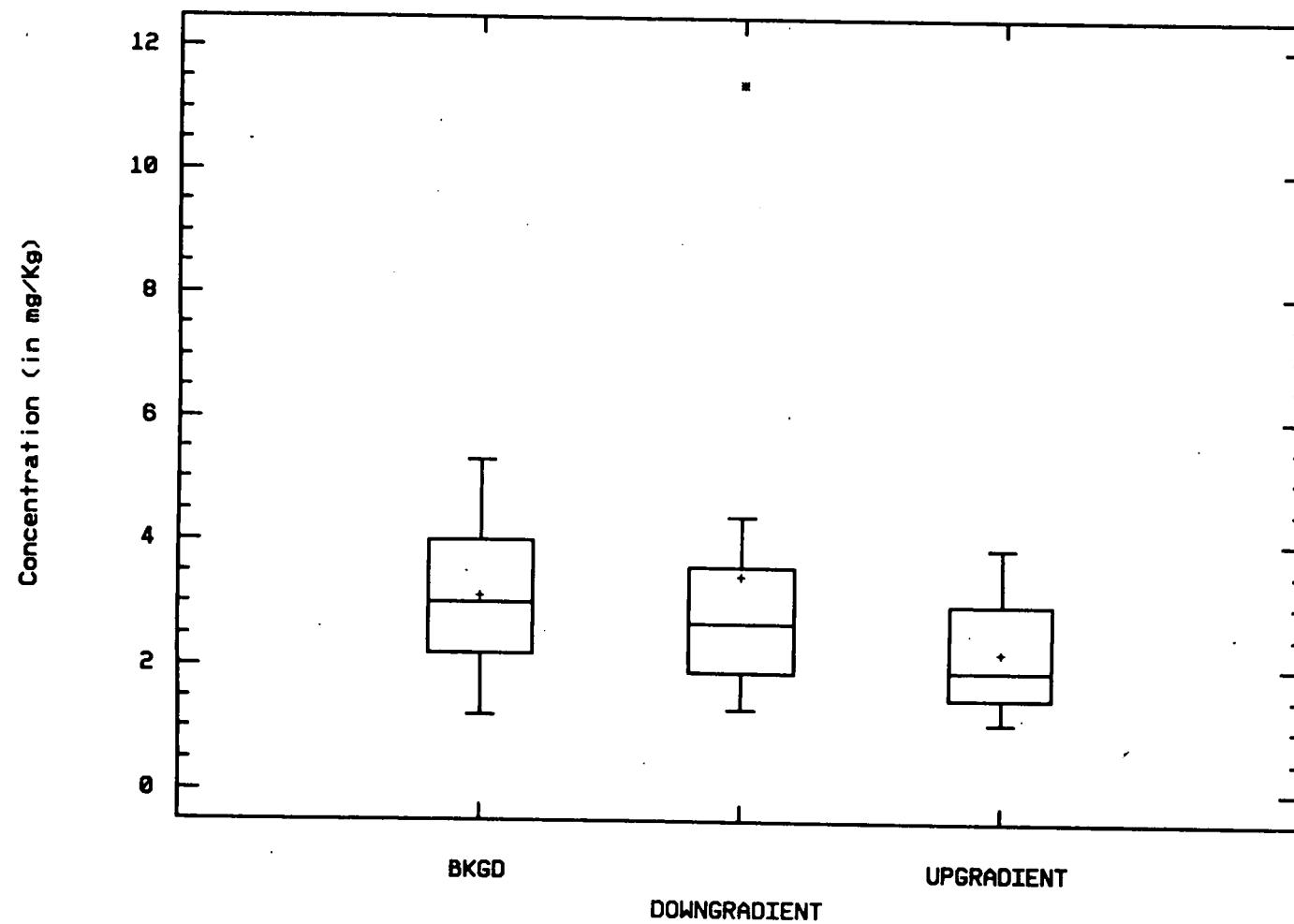


Americium-241 (Total): Subsurface Soils
Background vs. OU7 KaK1(ω)

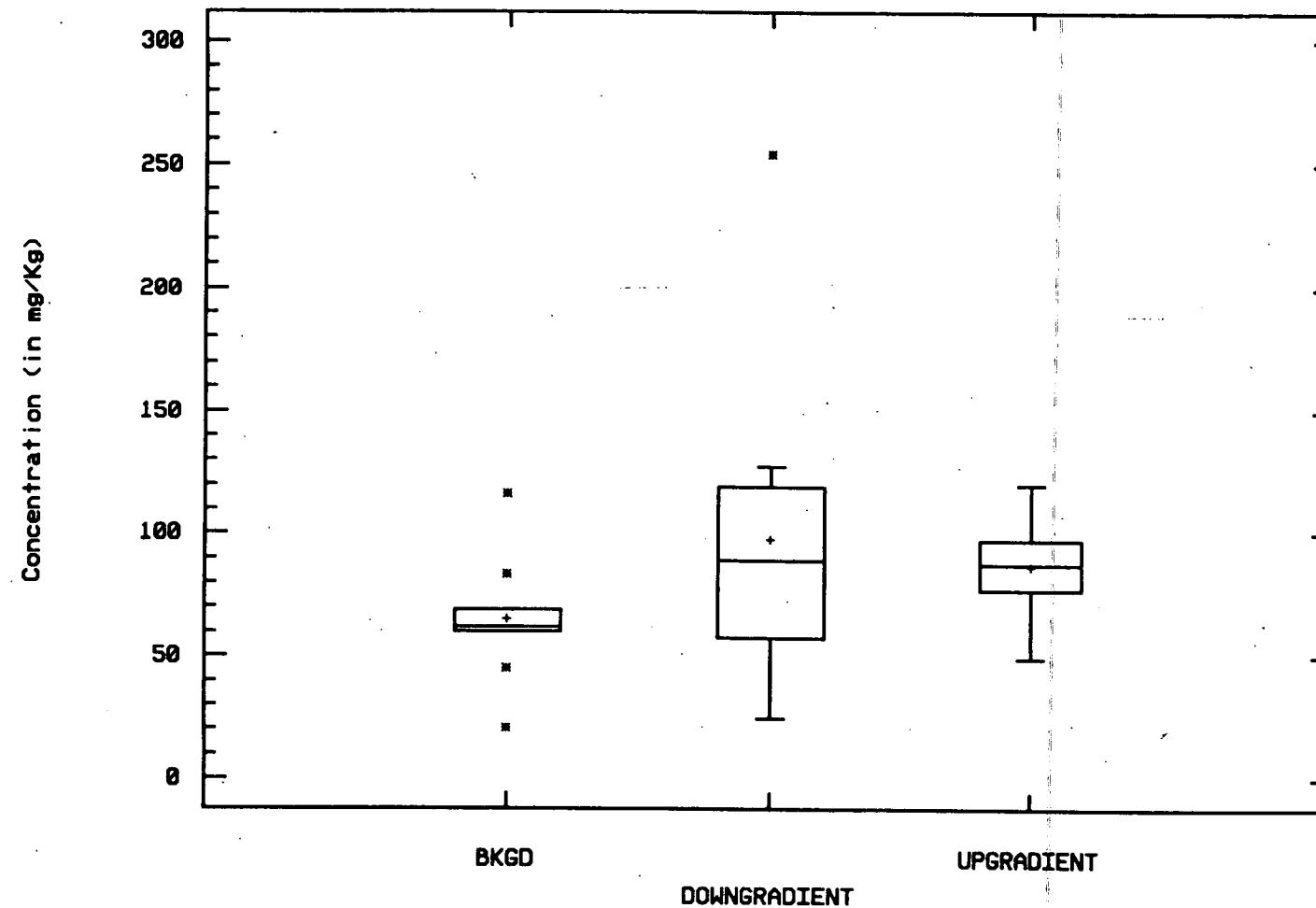


Arsenic (Total): Subsurface Soils

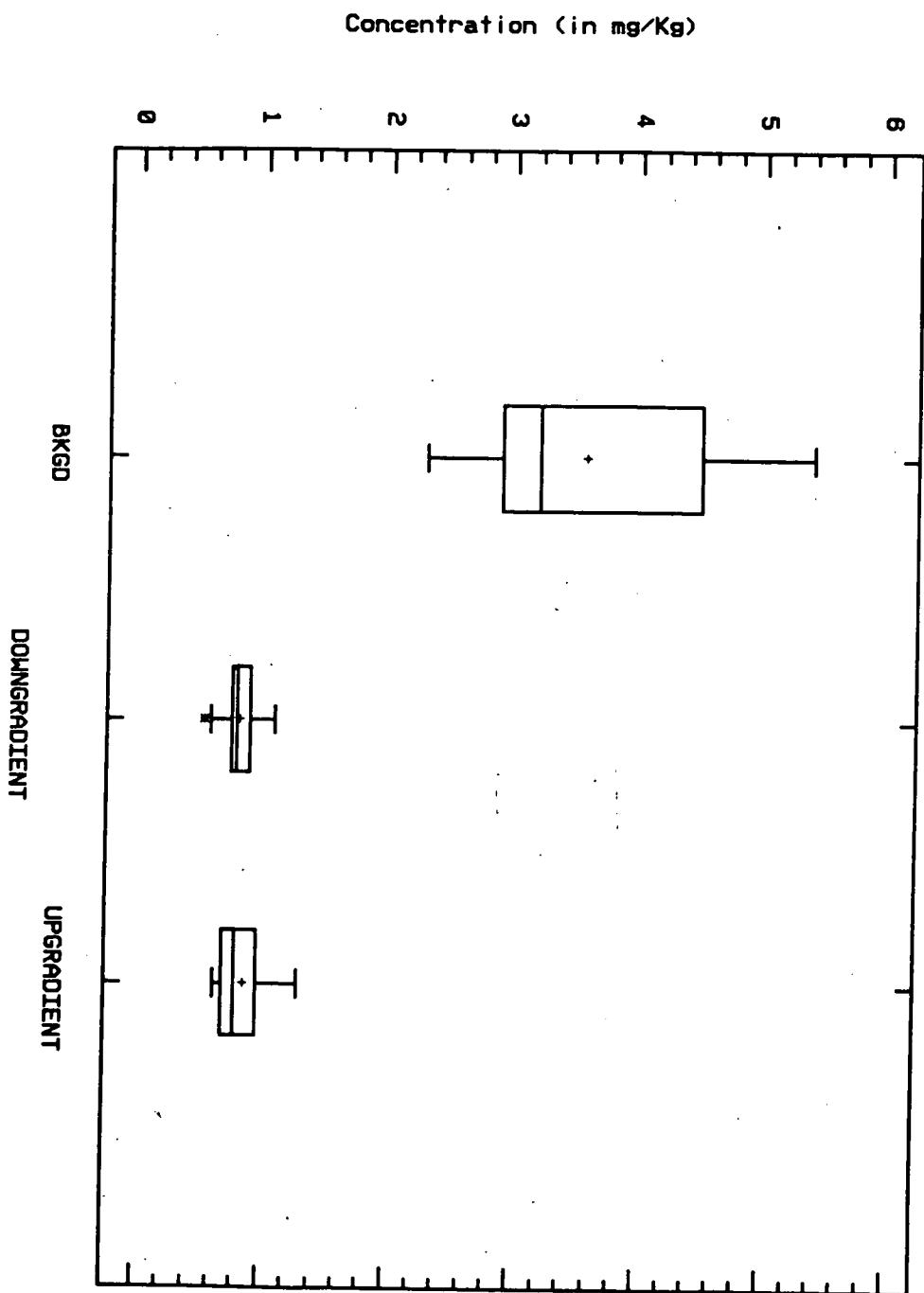
Background vs. OU7 KaKl (ω)



Barium (Total): Subsurface Soils
Background vs. OU7 KaK1(w)

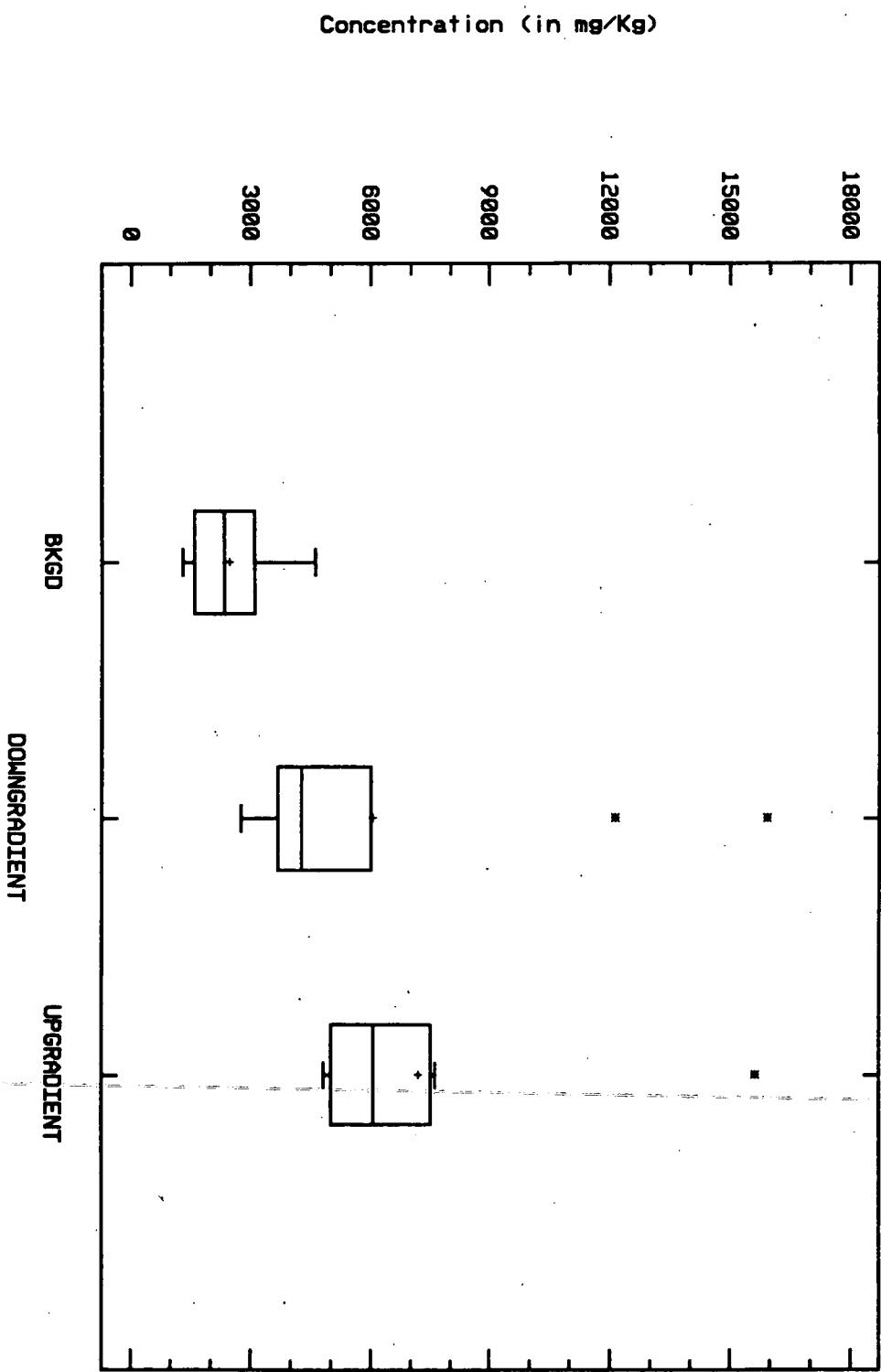


Beryllium (Total): Subsurface Soils
Background vs. OUT Kaki (w)

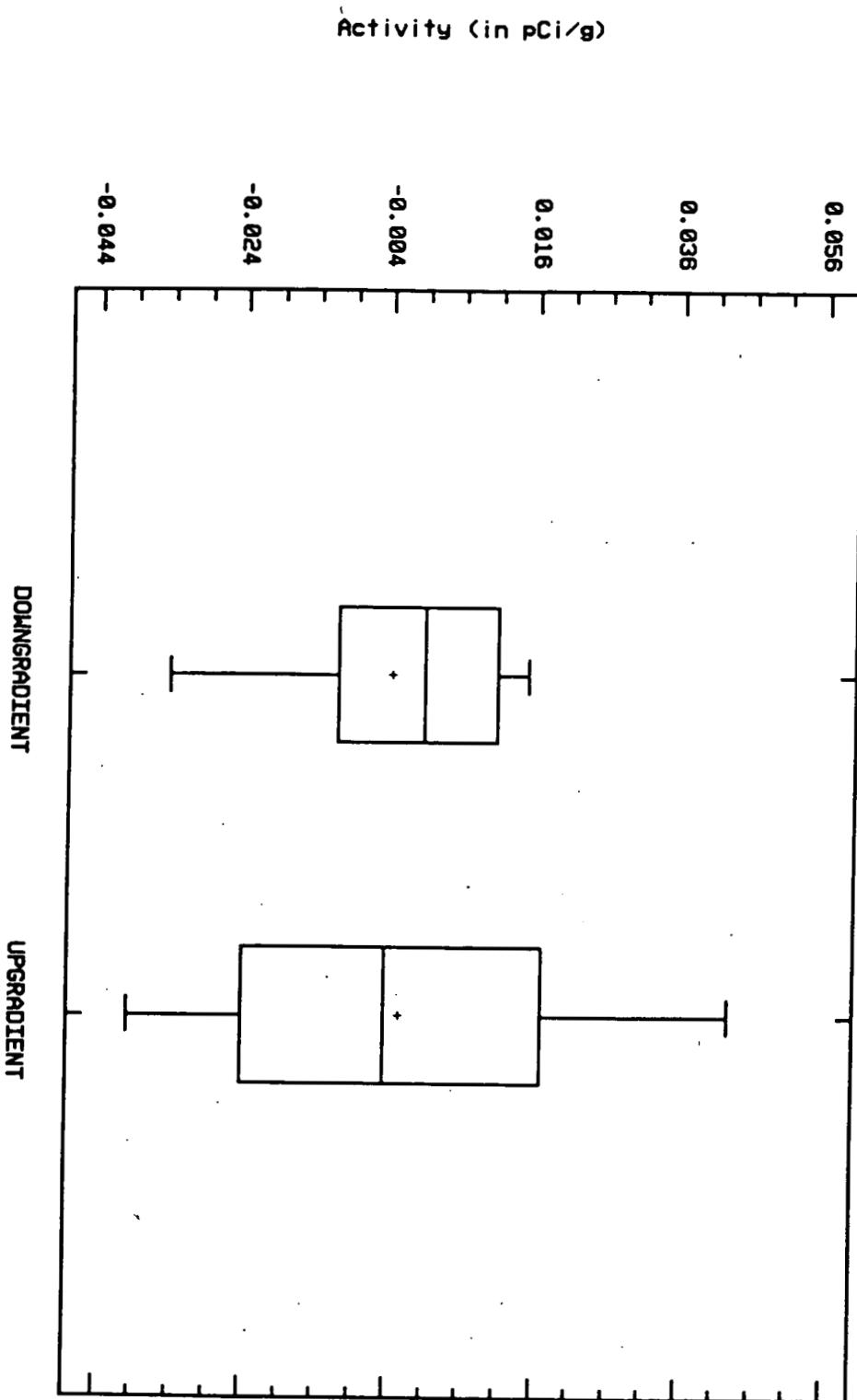


Calcium (Total): Subsurface Soils

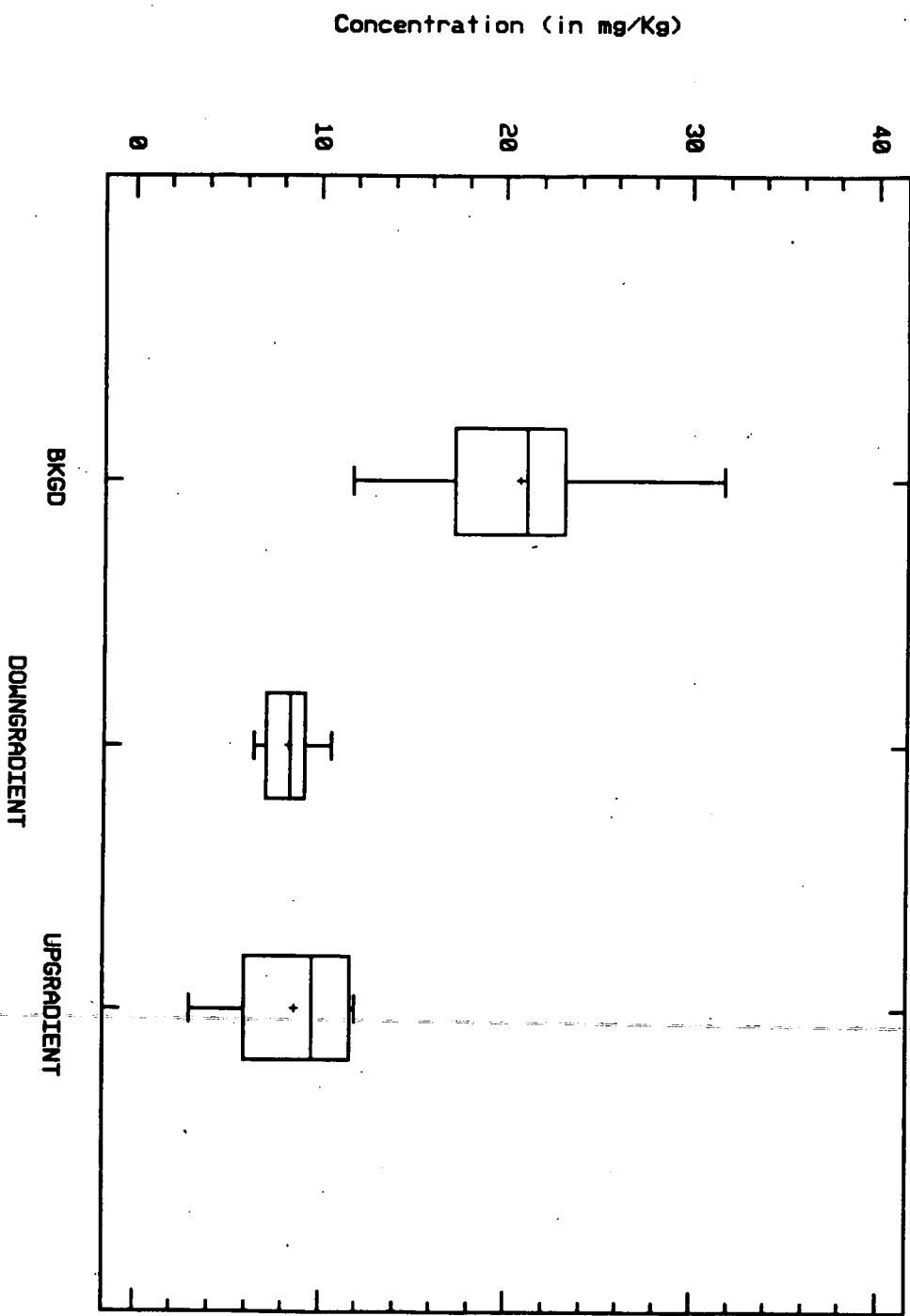
Background vs. OU7 KakI (u)



Cesium-137 (Total): Subsurface Soils
Background vs. OUT KAKI (u)

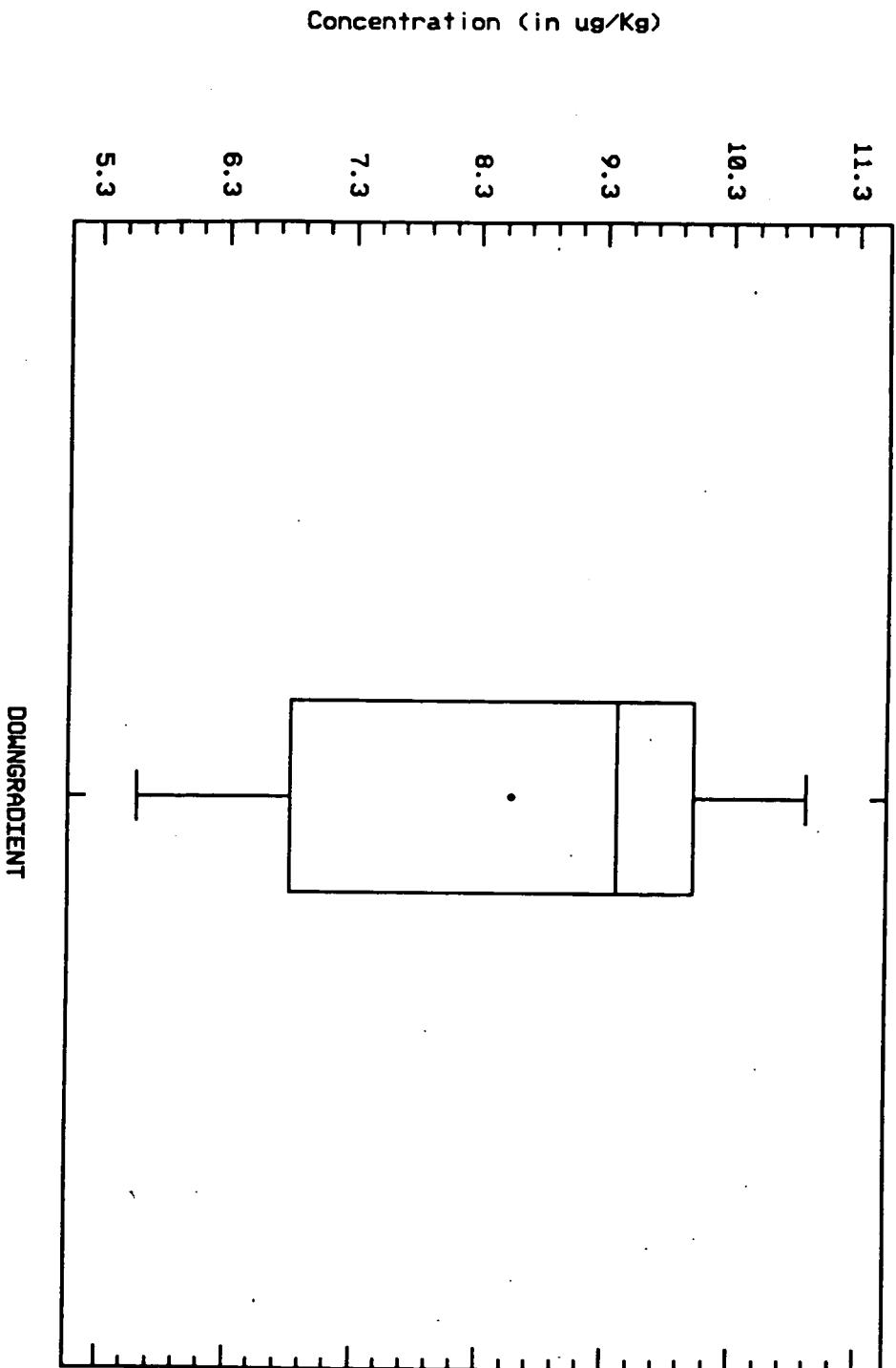


Chromium (Total): Subsurface Soils
Background vs. OUT KAKI (w)

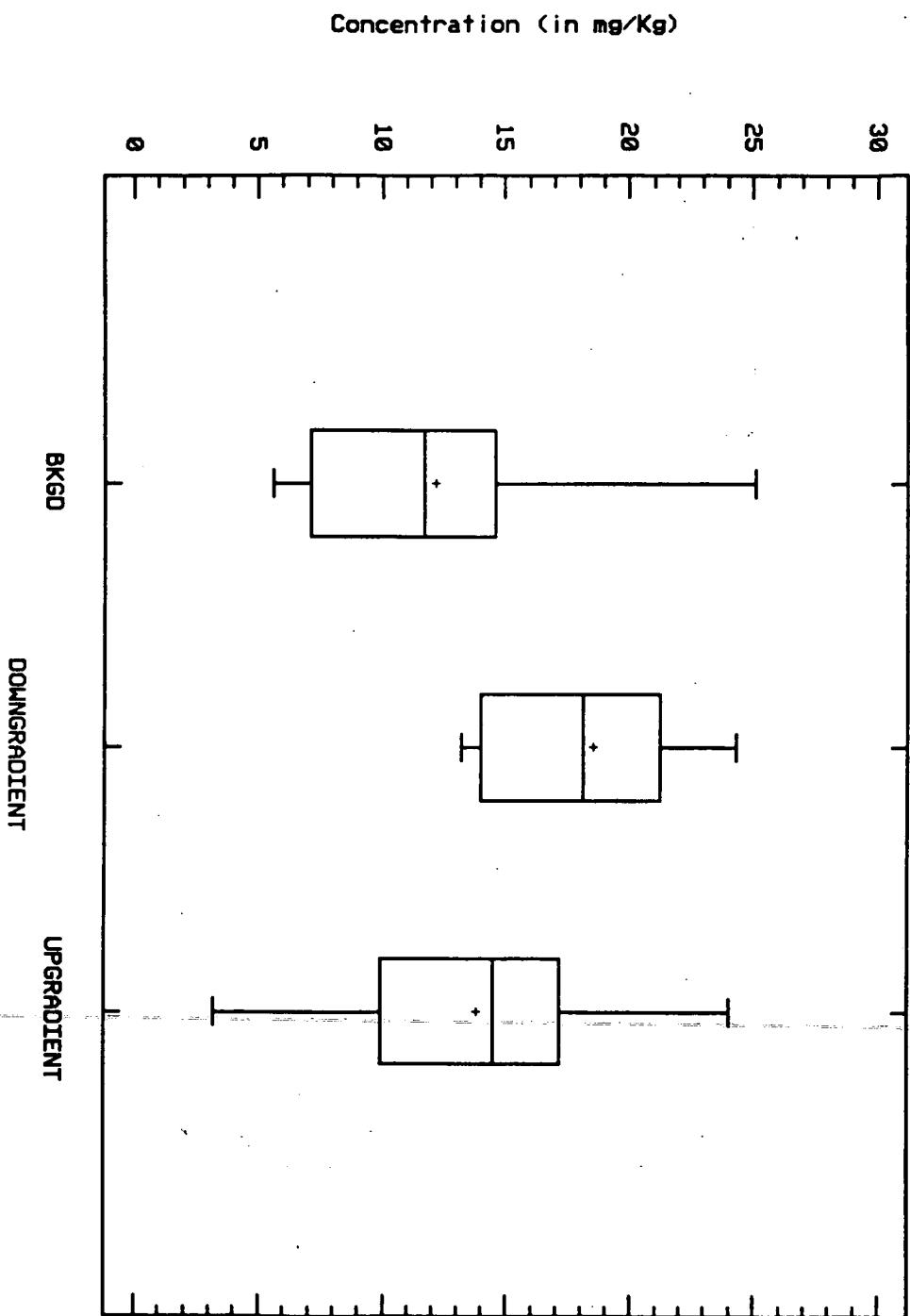


Cobalt: Subsurface Soils

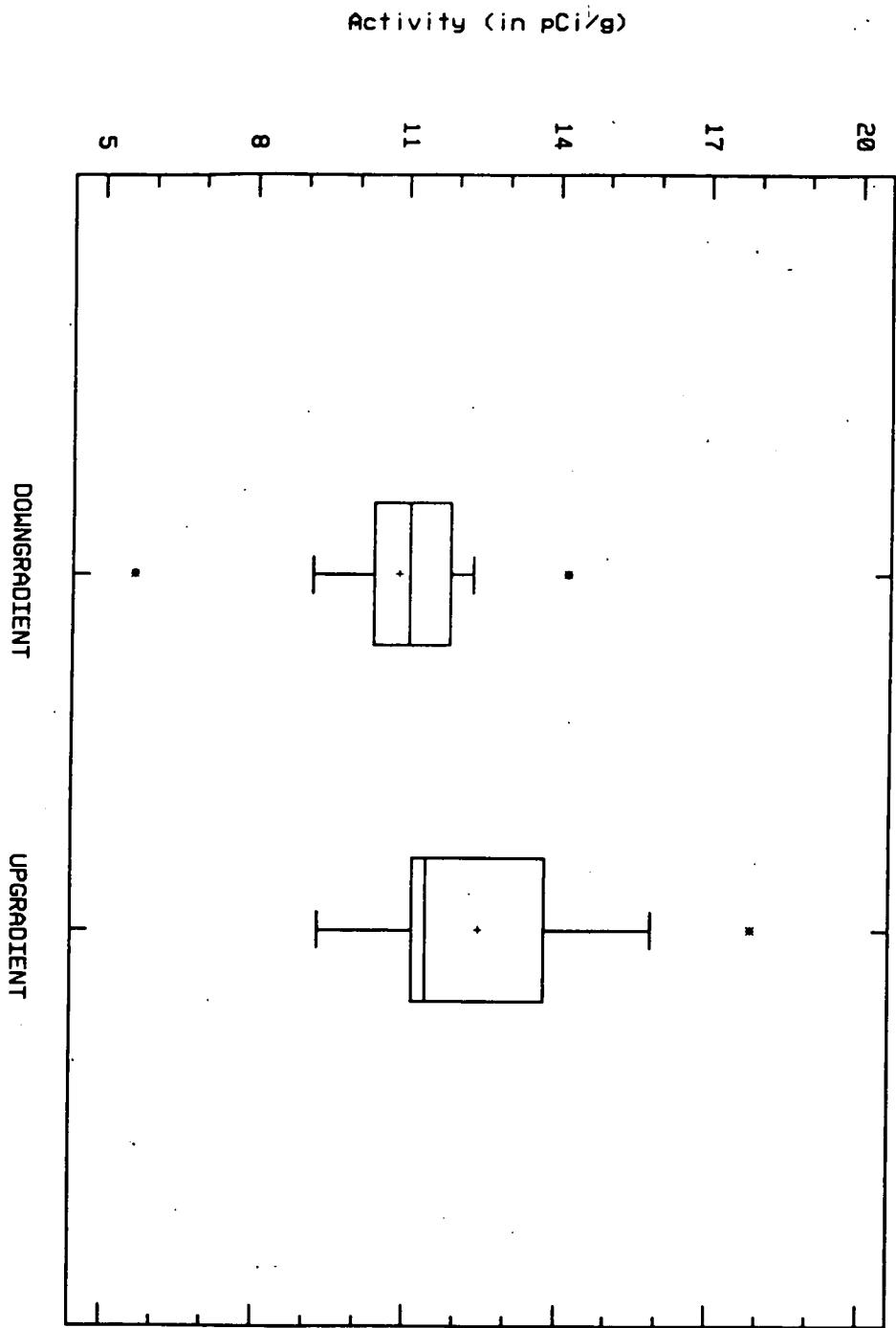
Background Oc vs. 0U7 Downgradient Oc



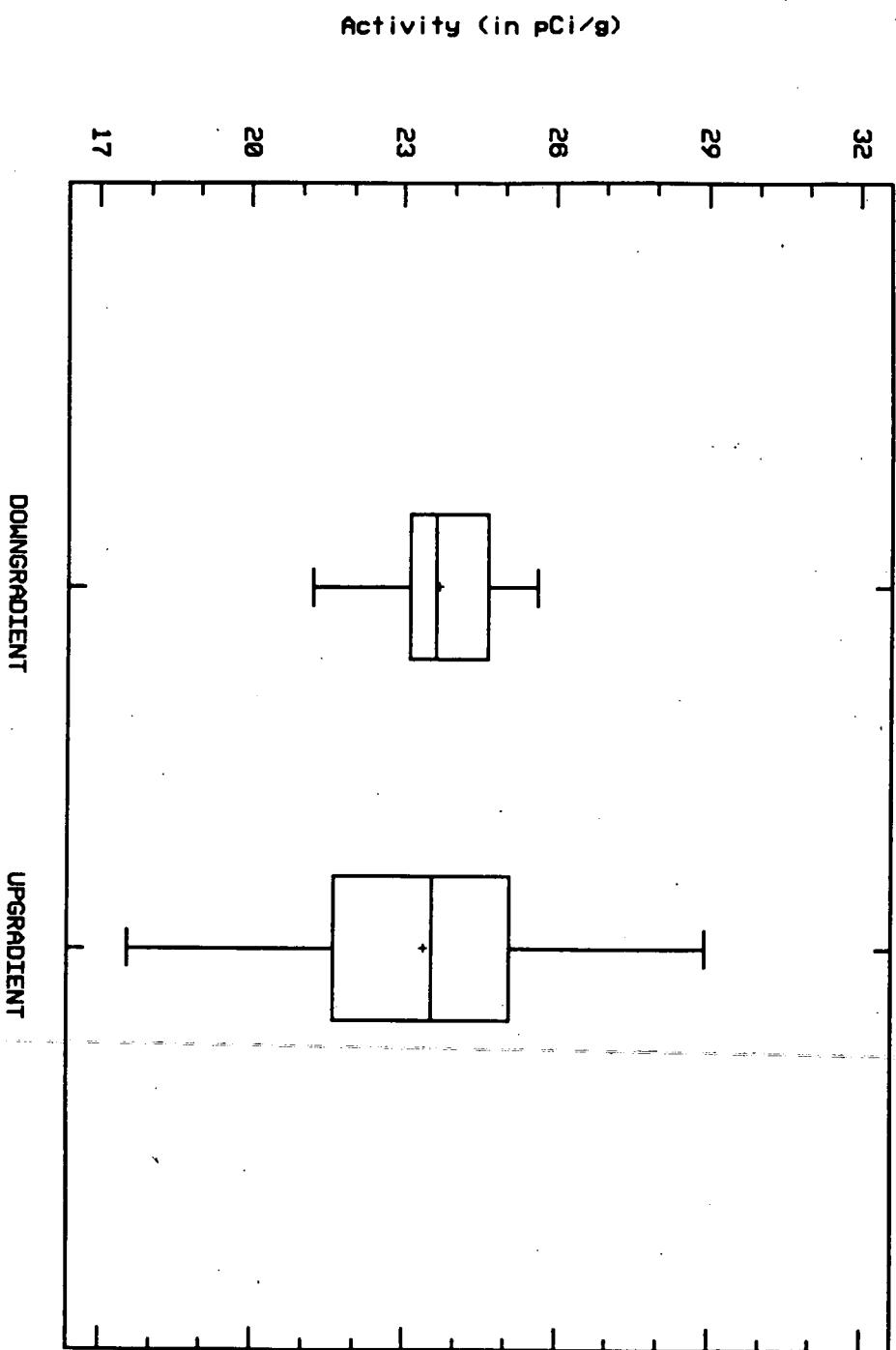
Copper (Total): Subsurface Soils
Background vs. 0U7 KakI(w)



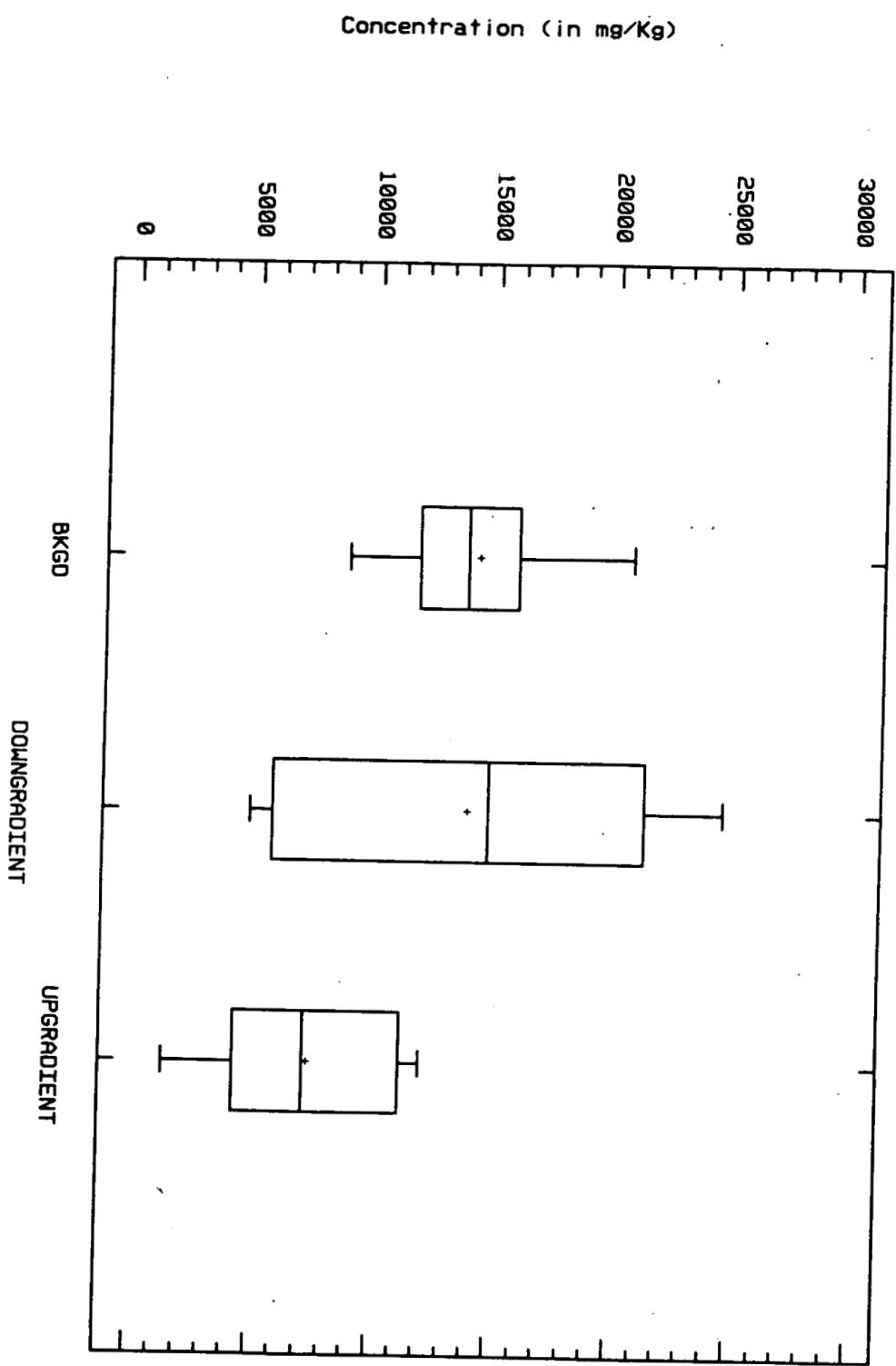
Gross Alpha (Total): Subsurface Soils
Background vs. OUT Kaki (w)



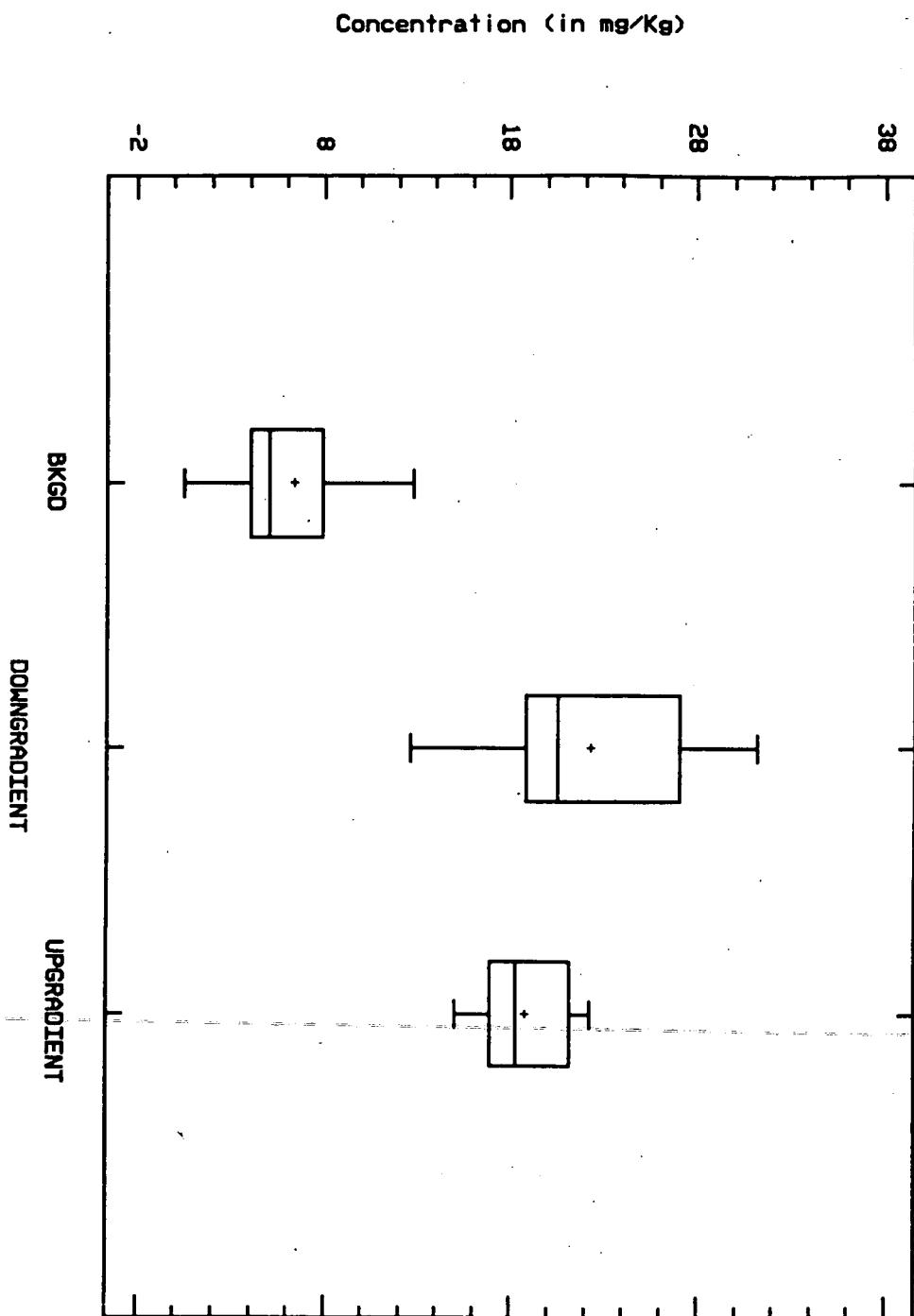
Gross Beta (Total): Subsurface Soils
Background vs. 0U7 Kaki (u)



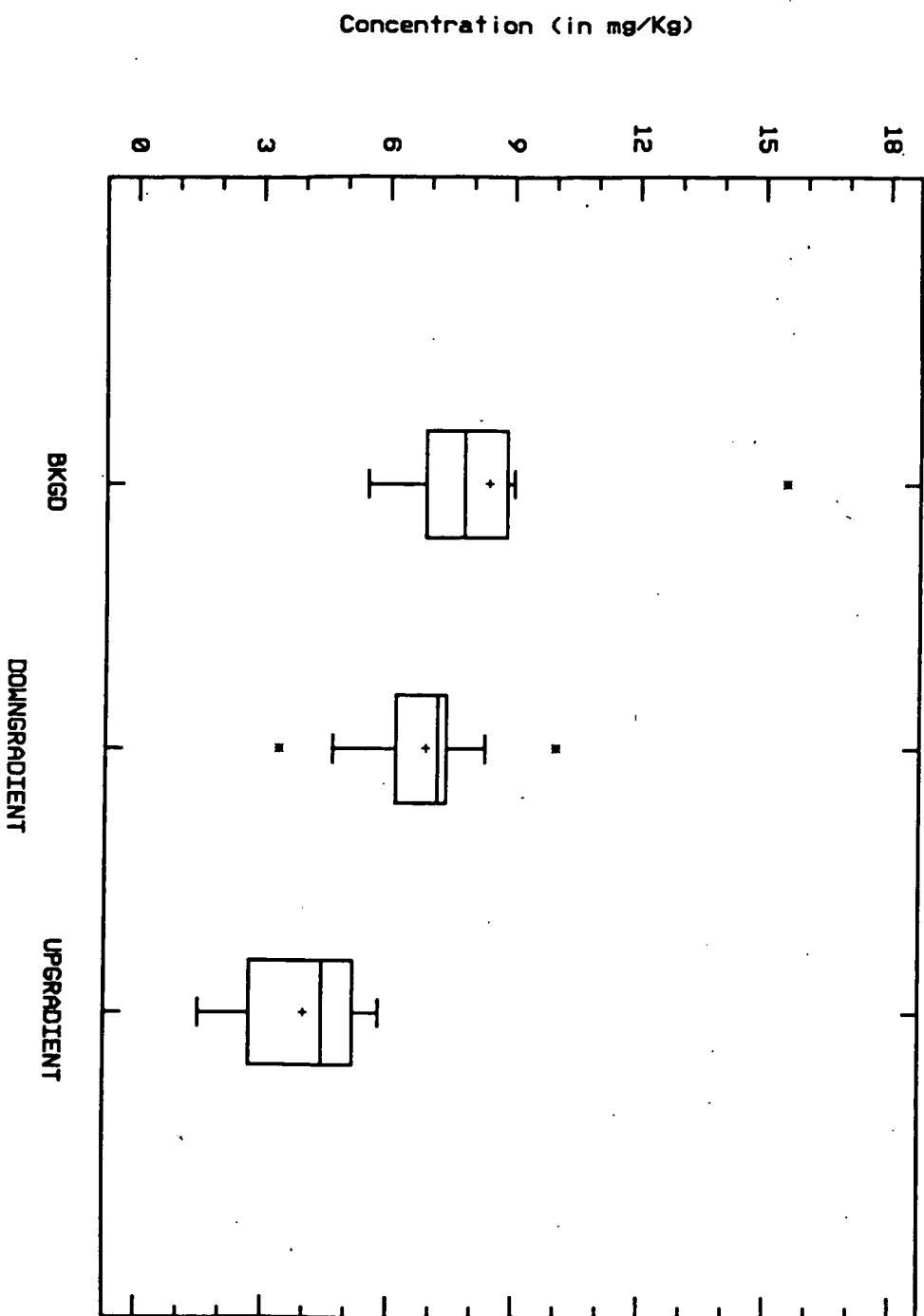
Iron (Total): Subsurface Soils
Background vs. OUT Kaki (w)



Lead (Total): Subsurface Soils
Background vs. OUT Kaki (w)

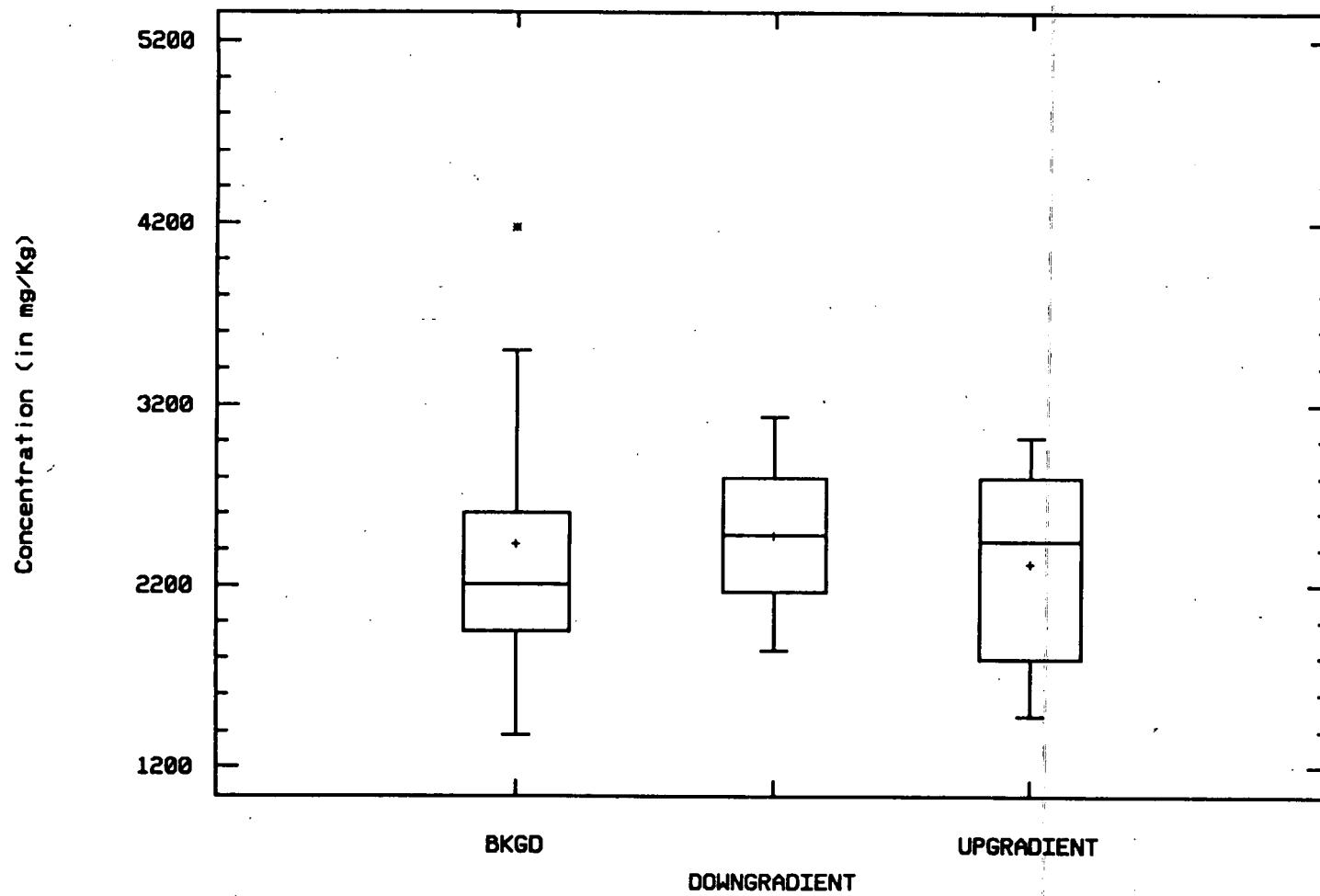


Lithium (Total): Subsurface Soils
Background vs. OUT Kaki (ω)



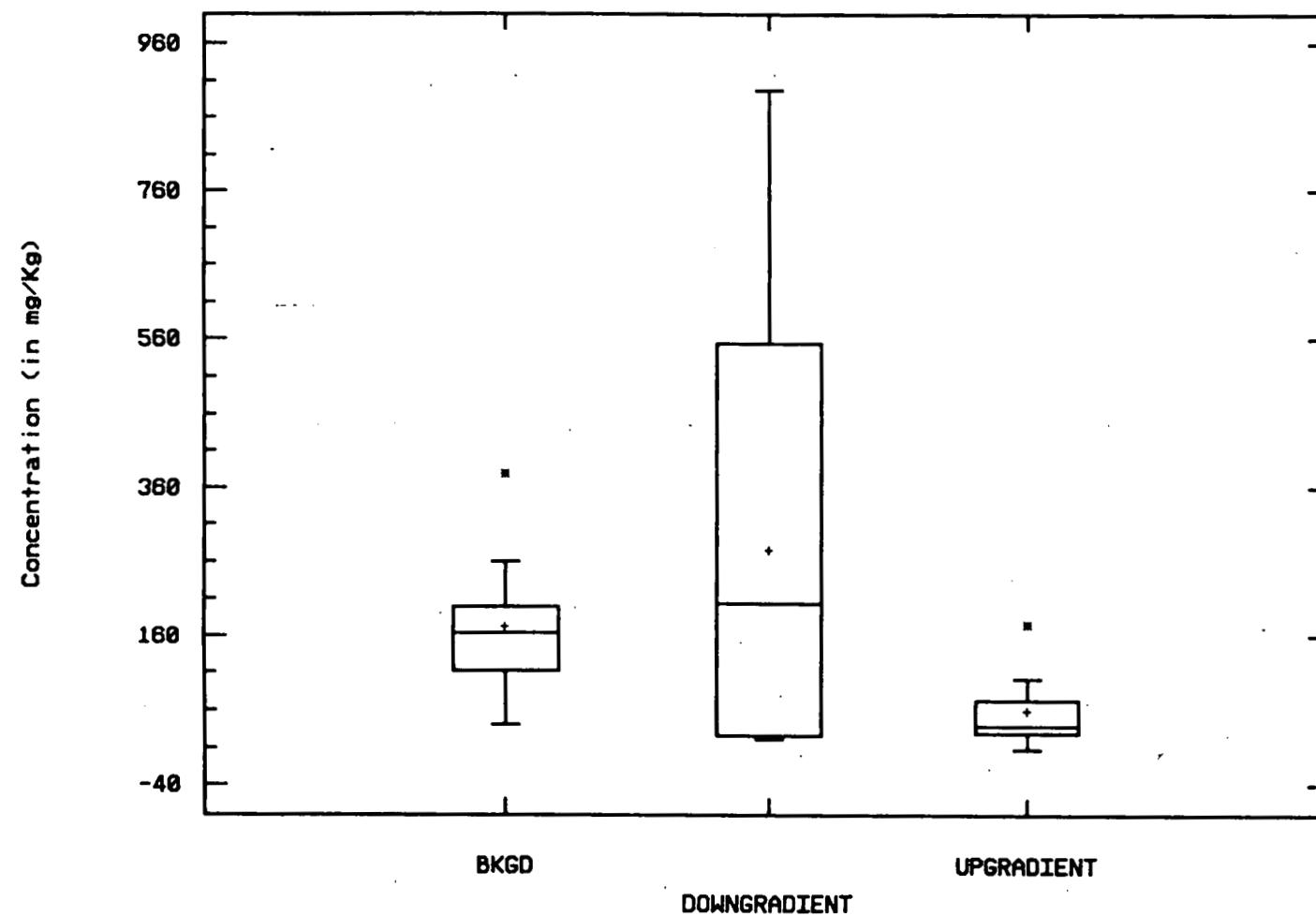
Magnesium (Total): Subsurface Soils

Background vs. OU7 KaK1(w)

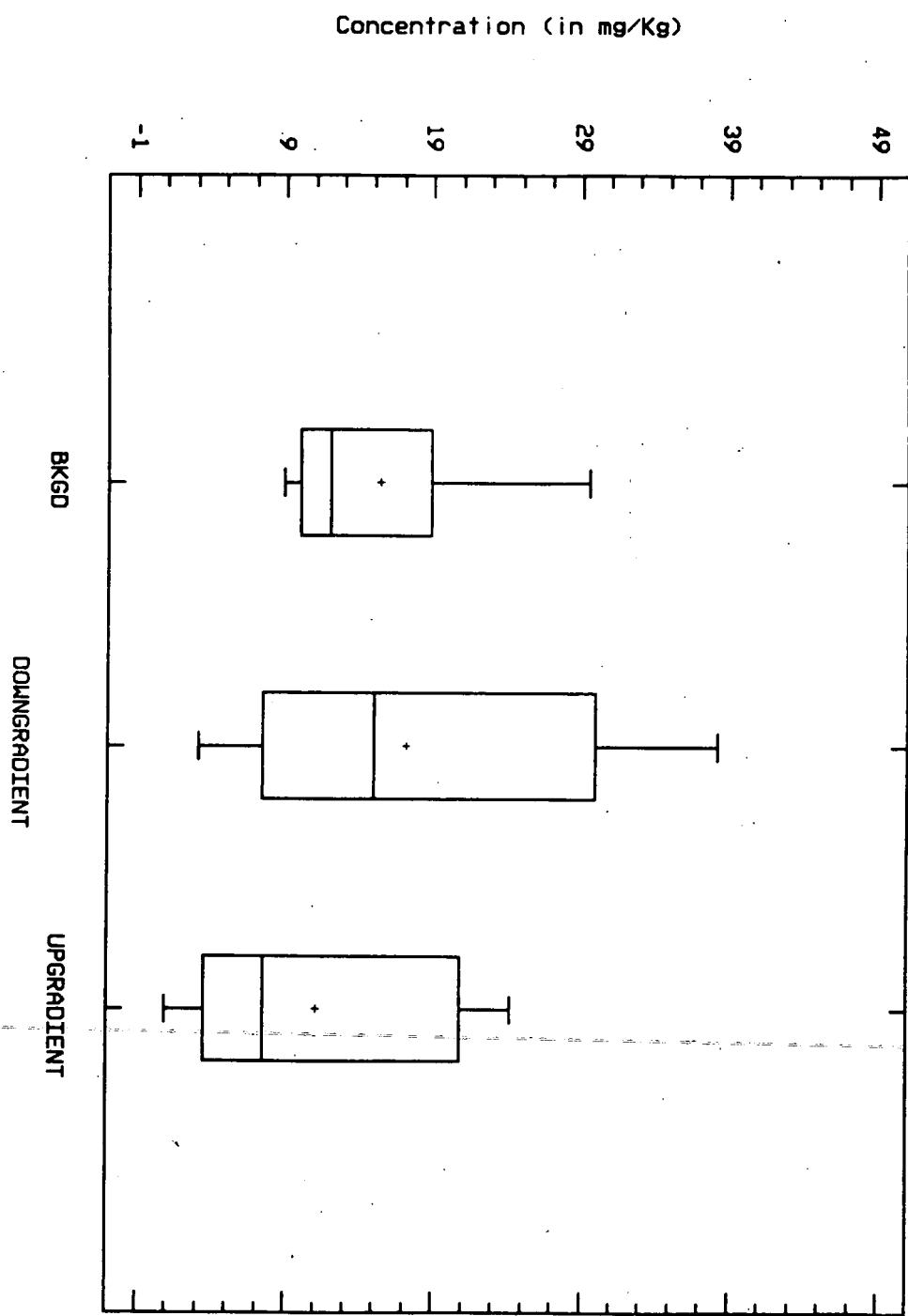


Manganese (Total): Subsurface Soils

Background vs. OU7 KaK1 (w)

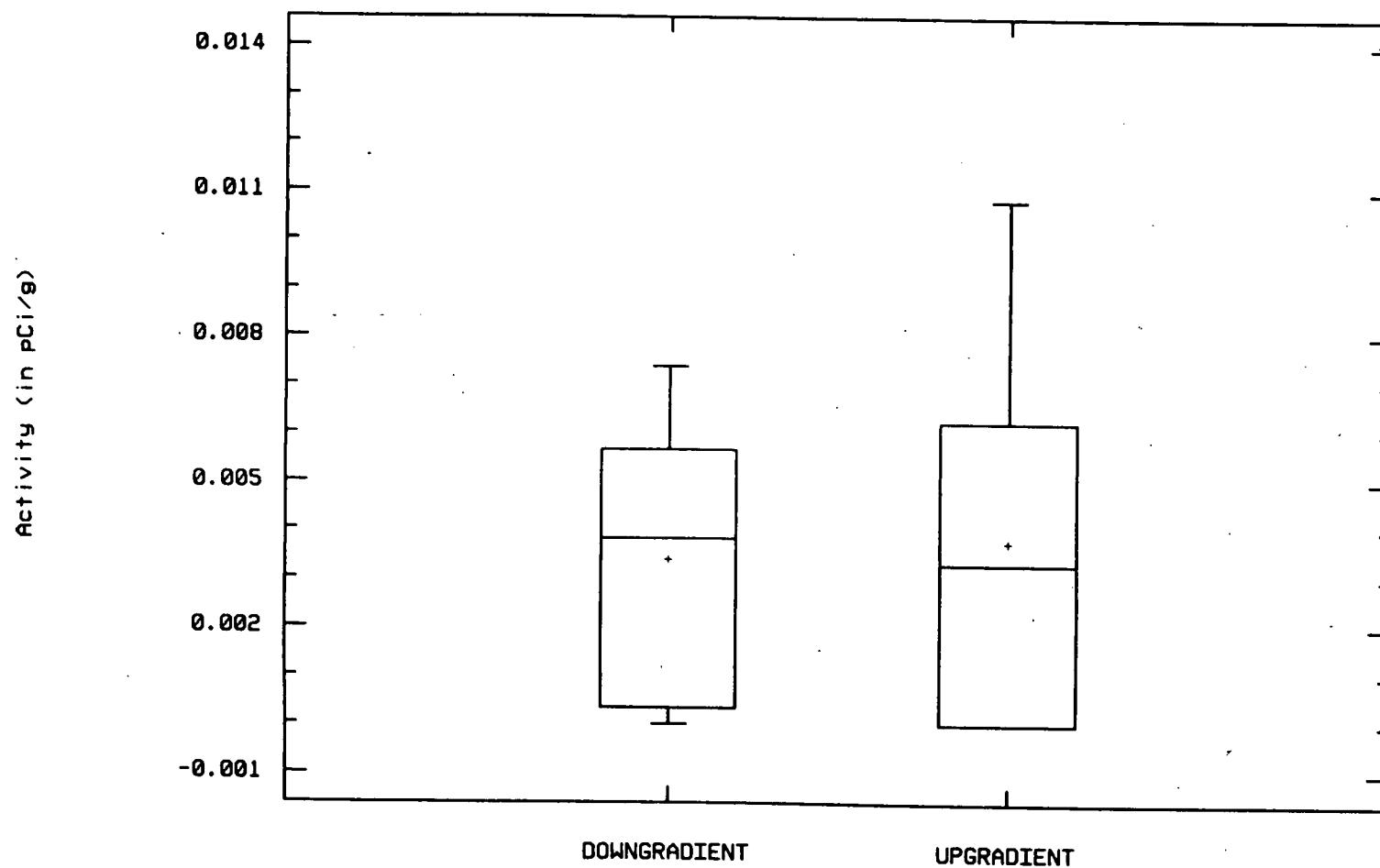


Nickel (Total): Subsurface Soils
Background vs. OUT KakI (ω)



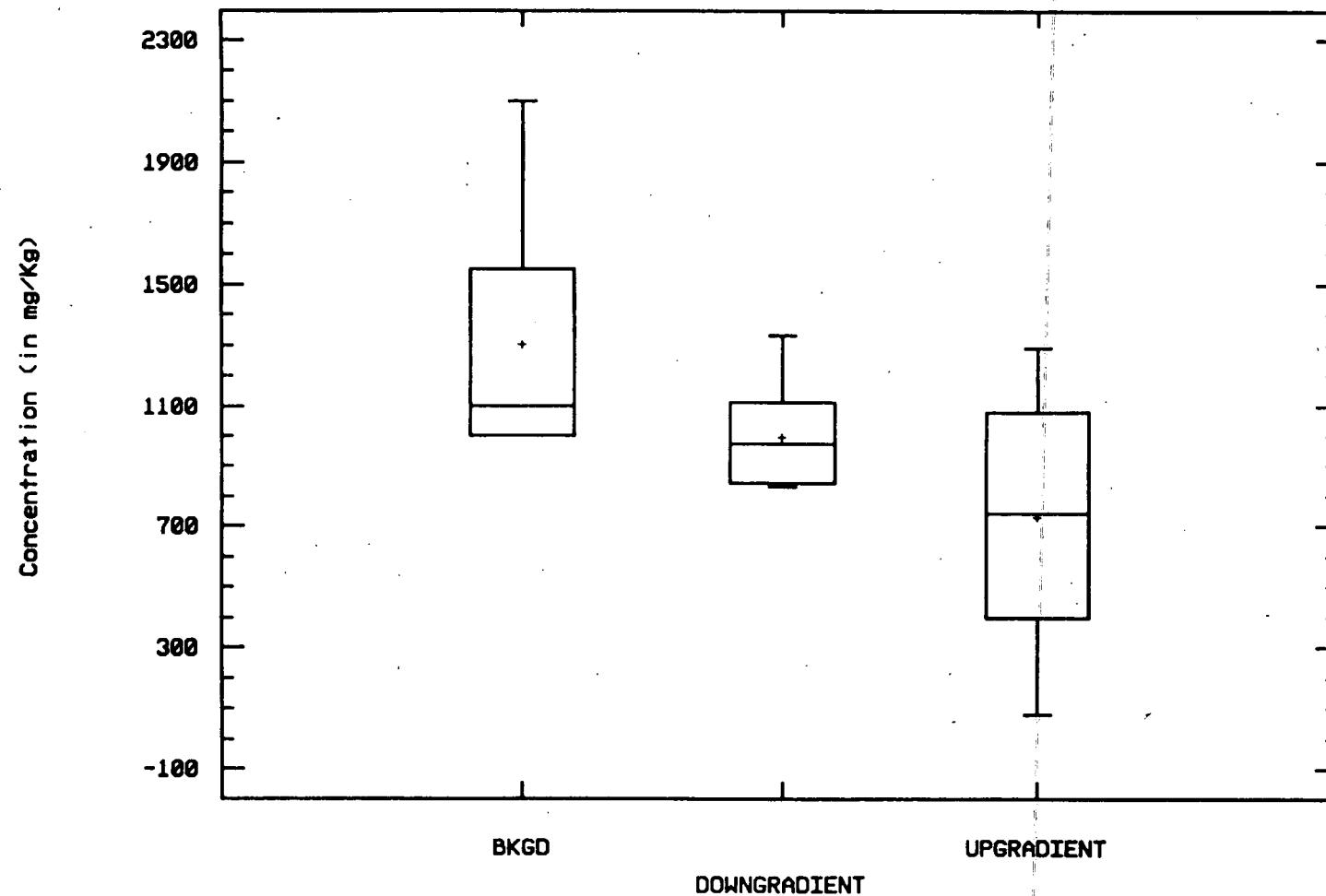
Plutonium-239/240 Total:Subsurface Soils

Background vs. OU7 KaK1(ω)

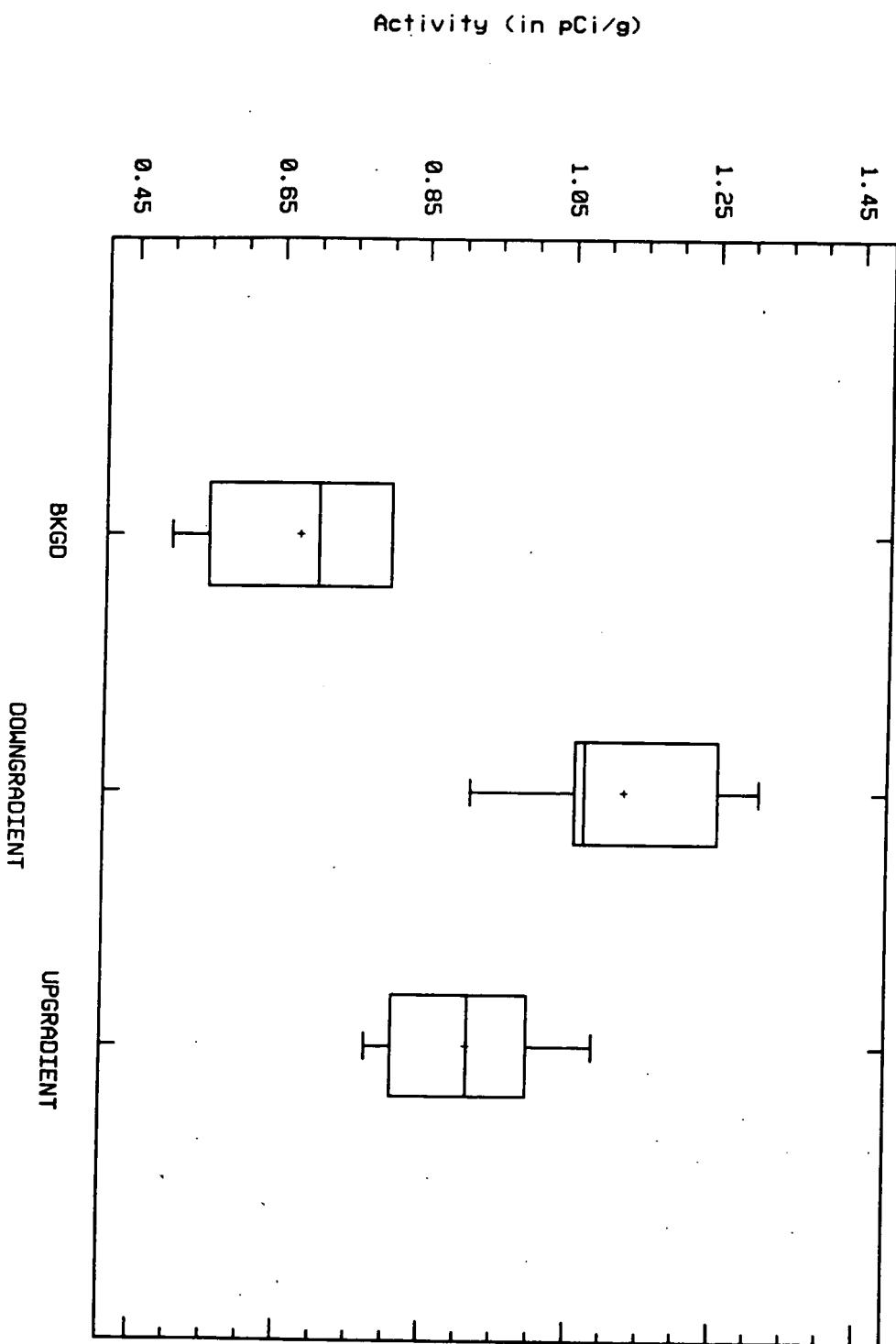


Potassium (Total): Subsurface Soils

Background vs. OU7 KaK1(u)

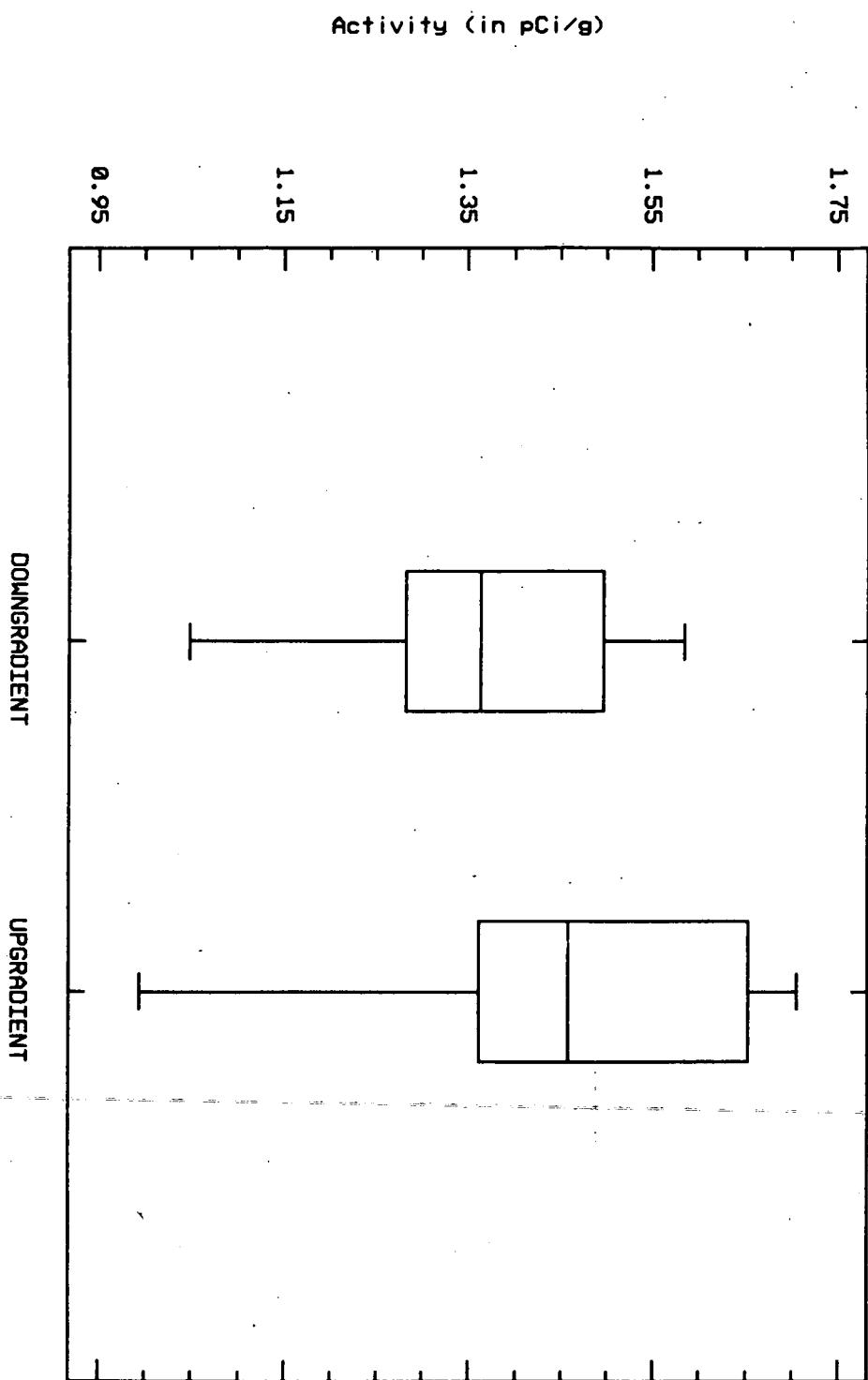


Radium-226 Total: Subsurface Soils
Background vs. OUT KAKI (ω)



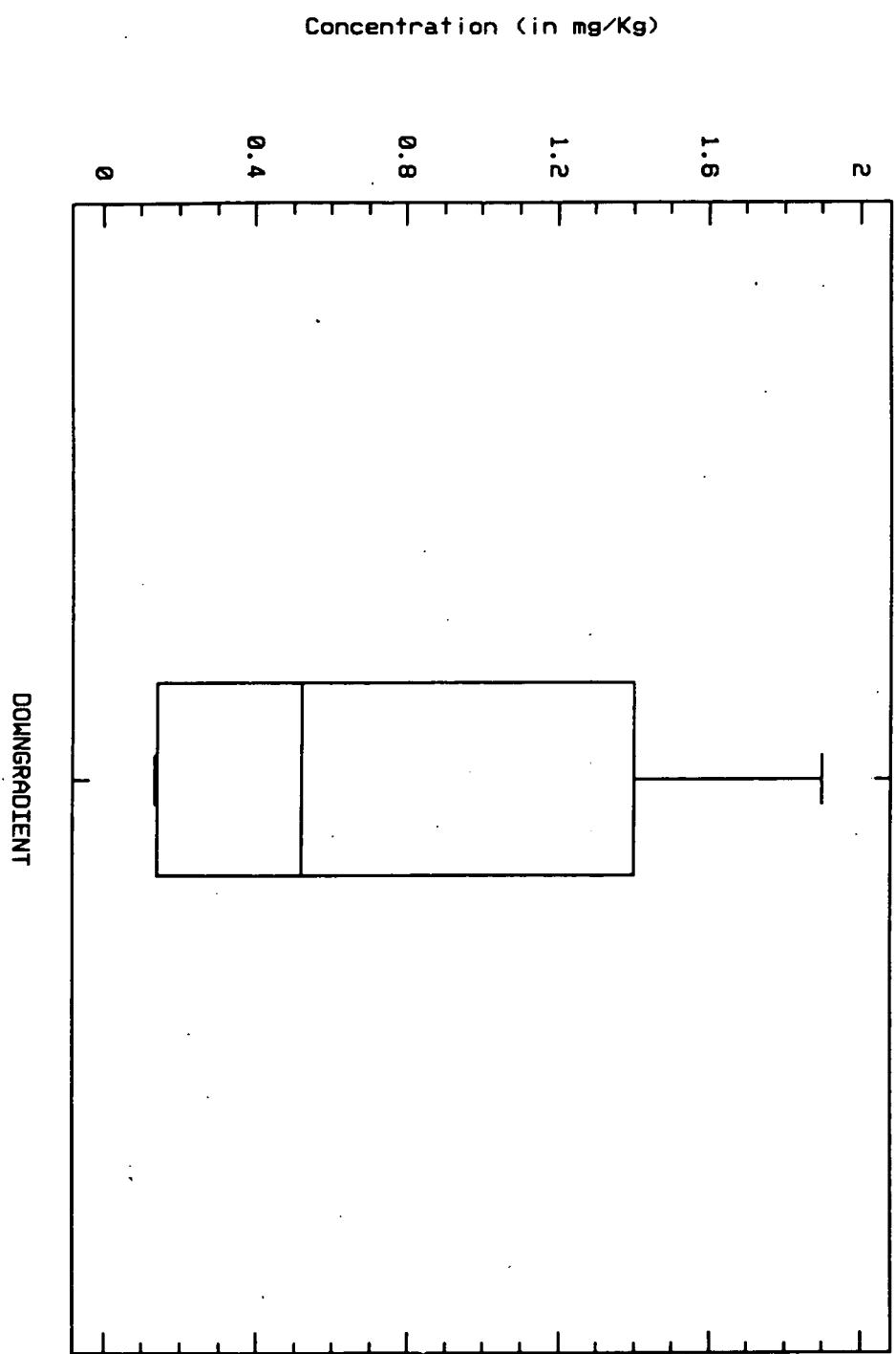
Radium-228 (Total): Subsurface Soils

Background vs. DU7 Kaki (ω)

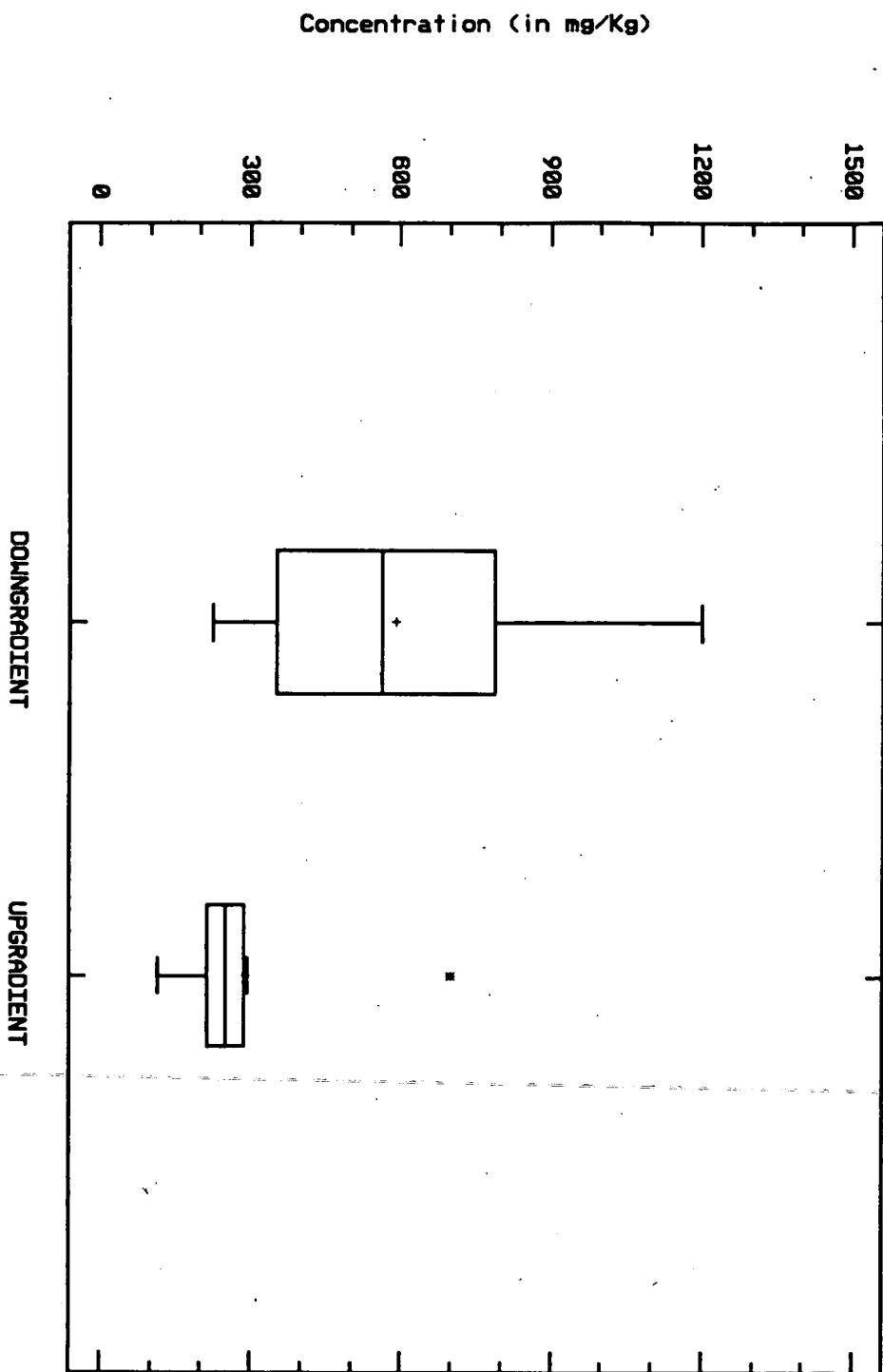


Selenium (Total): Subsurface Soils

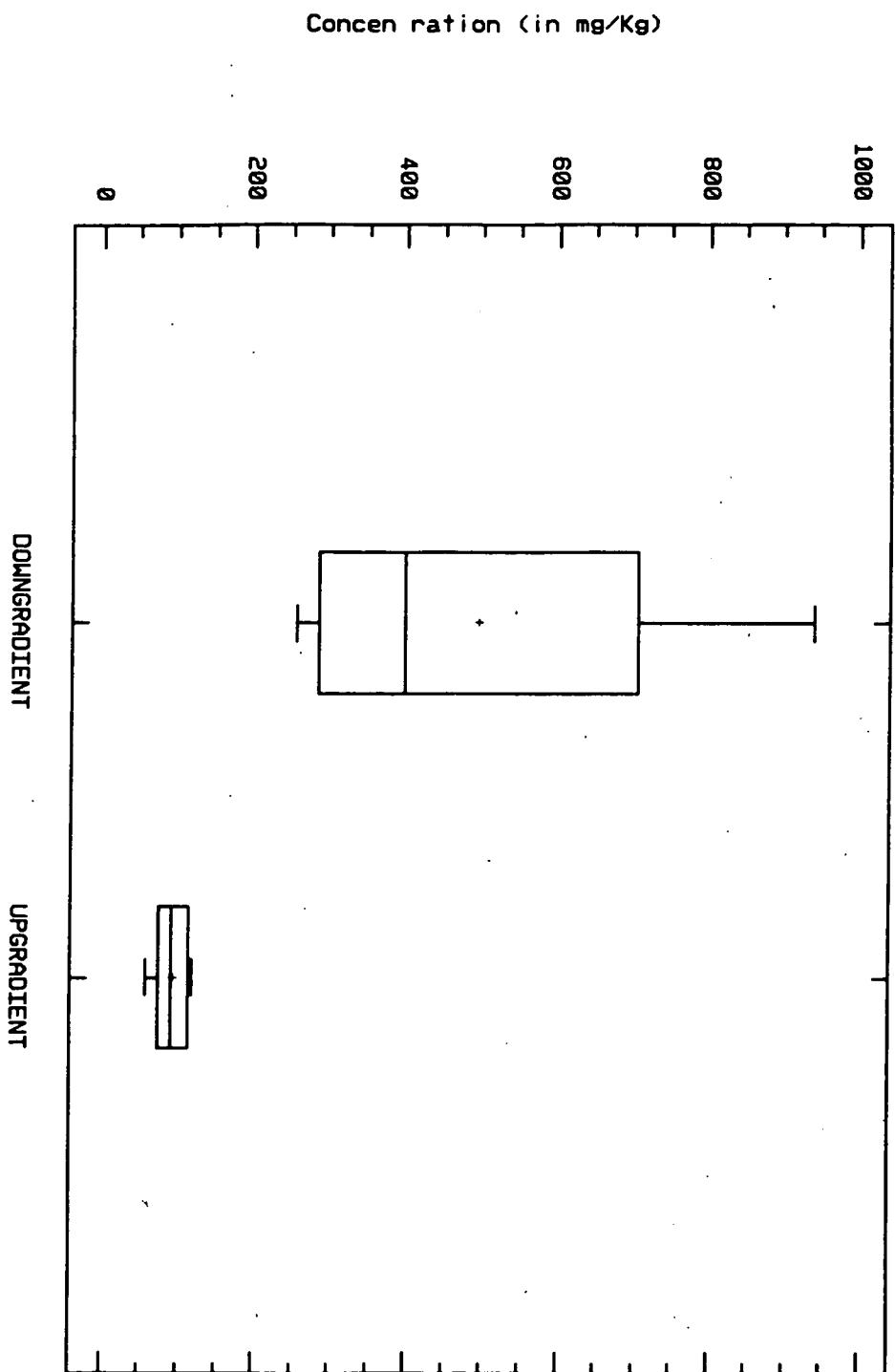
Background vs. 0U7 KakI (ω)



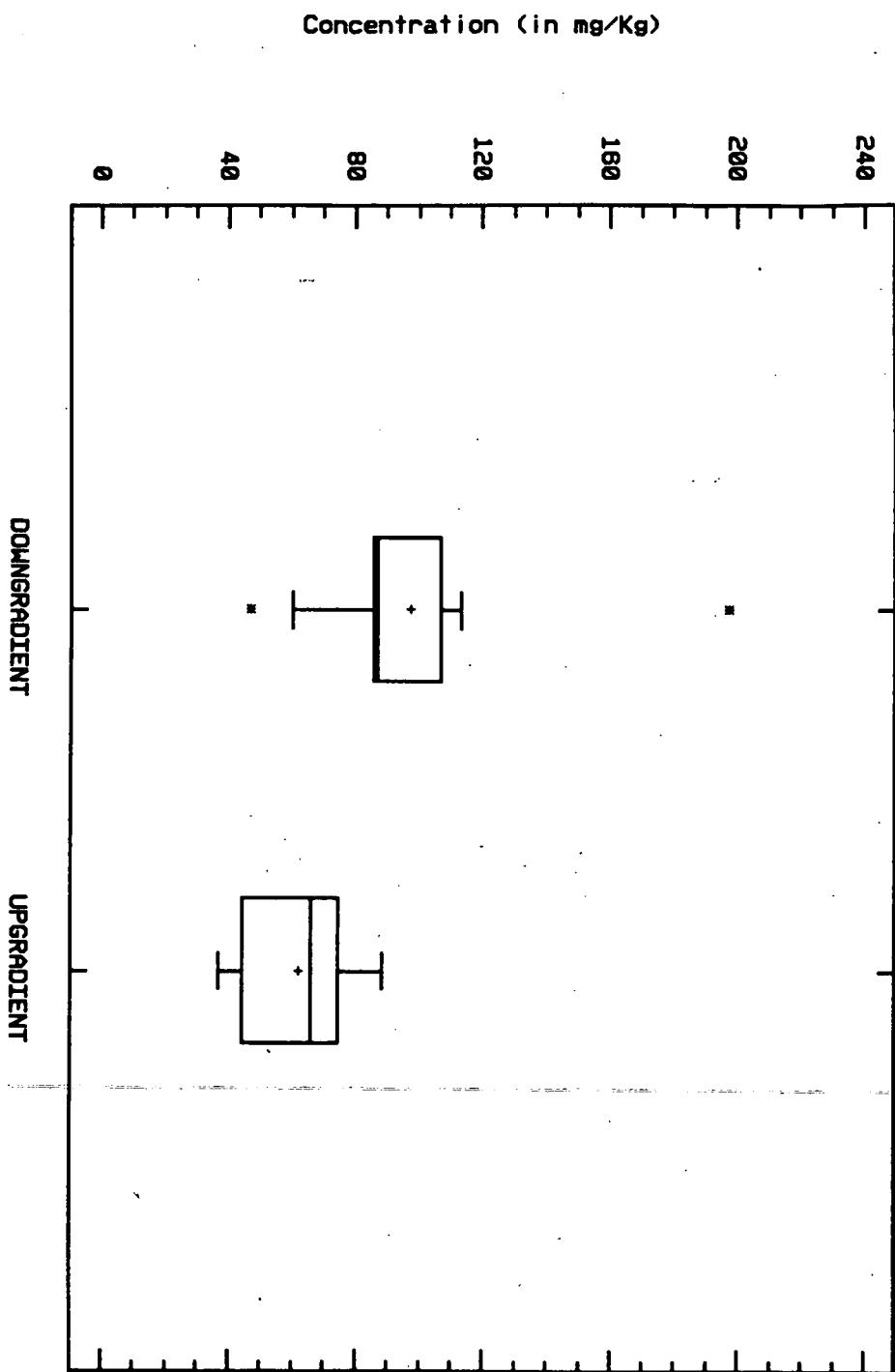
Silicon (Total): Subsurface Soils
Background vs. OUT KAKI (w)



Sodium (Total): Subsurface Soils
Background vs. OUT KakI (ω)

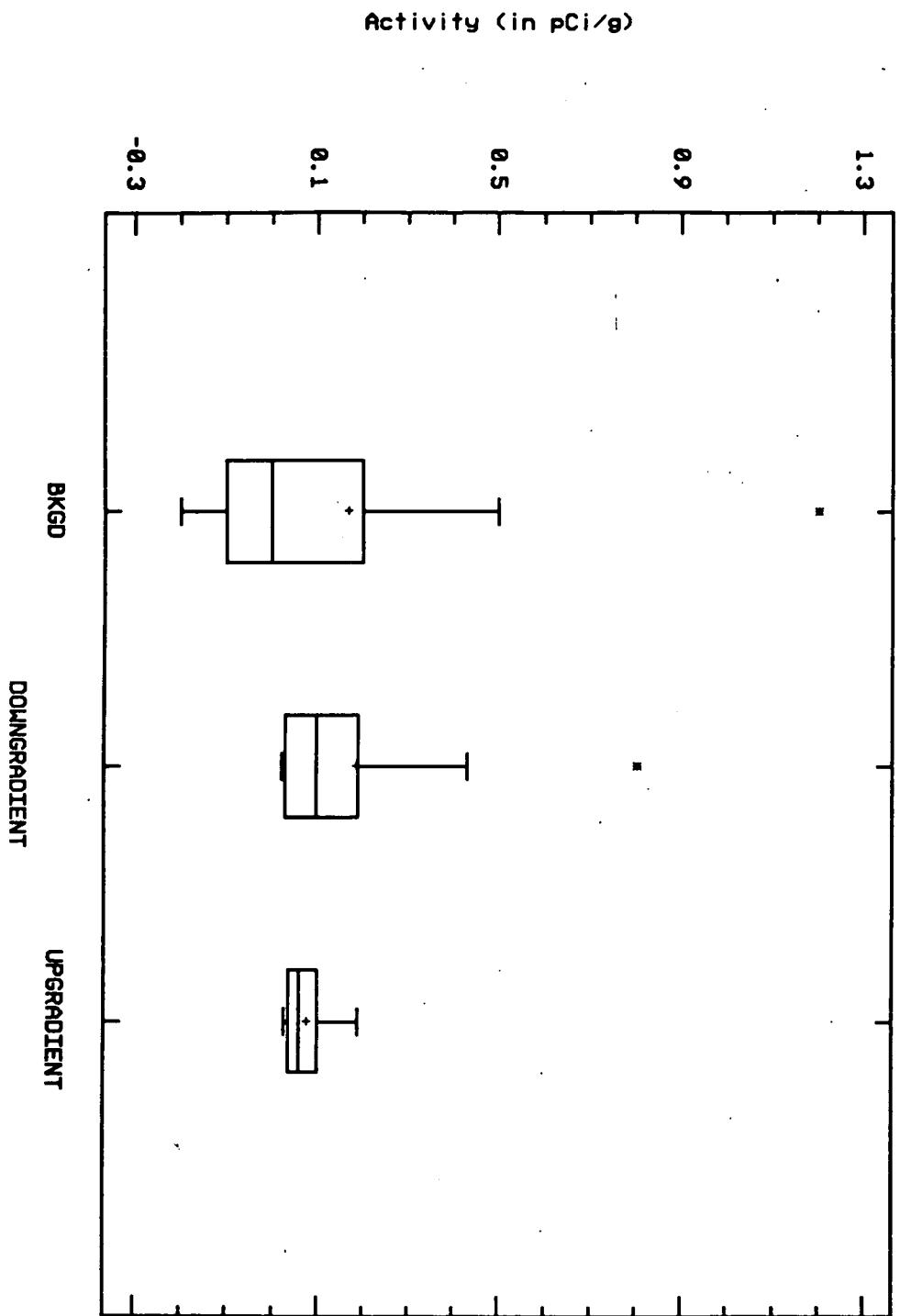


Strontium (Total): Subsurface Soils
Background vs. OUT KakI (ω)

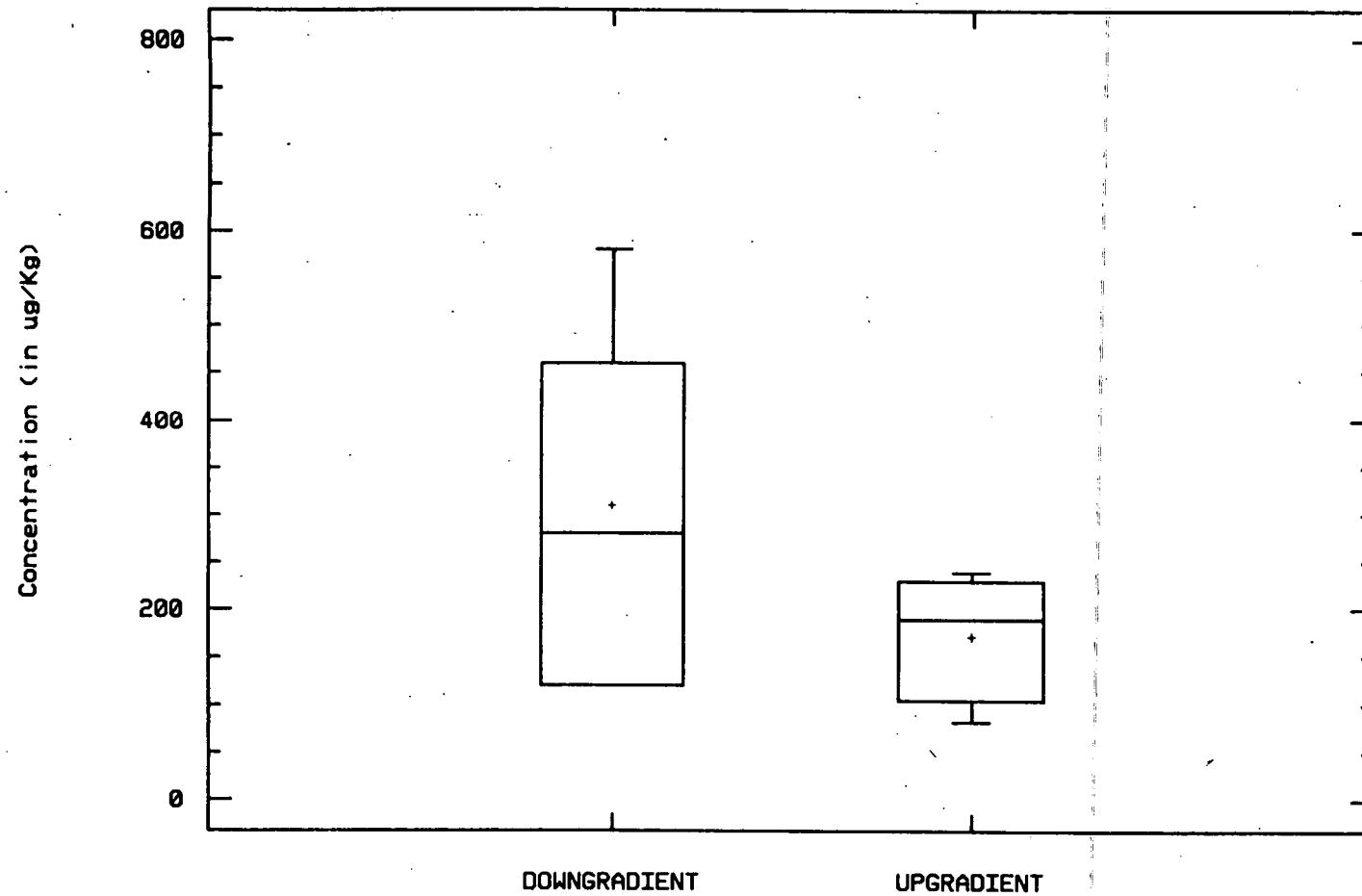


Srontium-89,90 (Total):Subsurface Soils

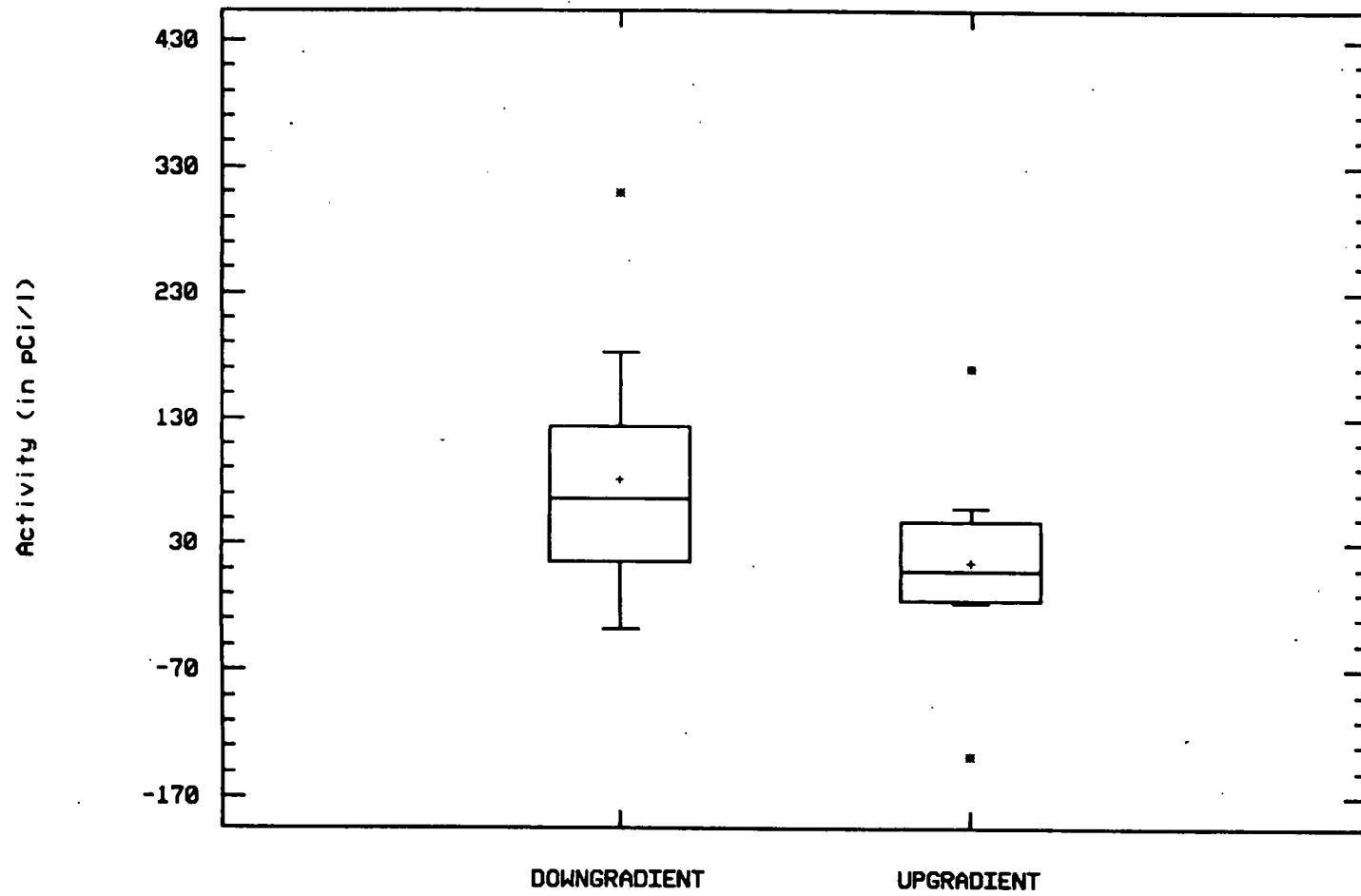
Background vs. OUT Kaki (ω)



Toluene (Total): Subsurface Soils
Background vs. OU7 KaK1 (w)

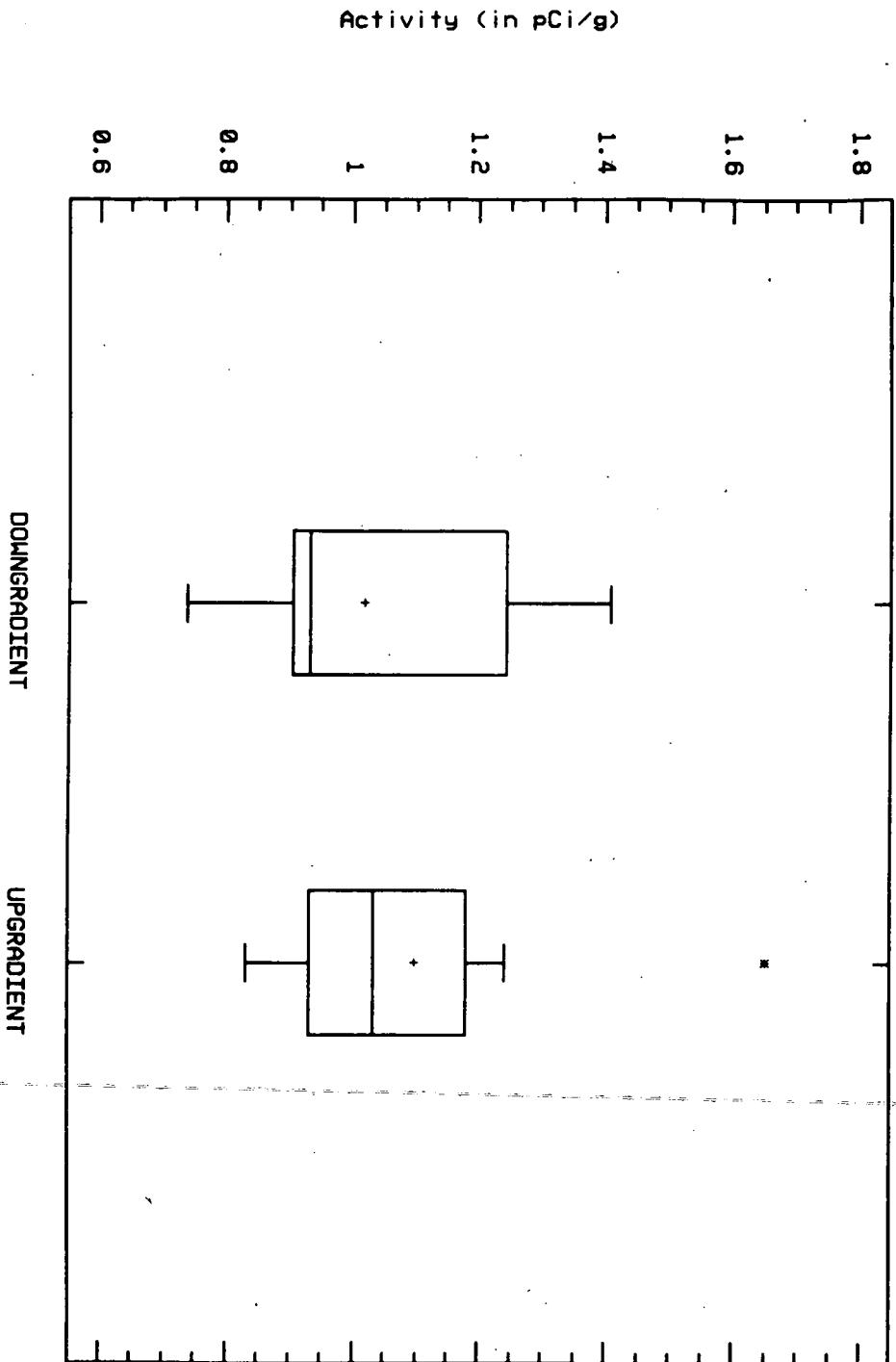


Tritium (Total): Subsurface Soils
Background vs. OU7 KaK1(u)

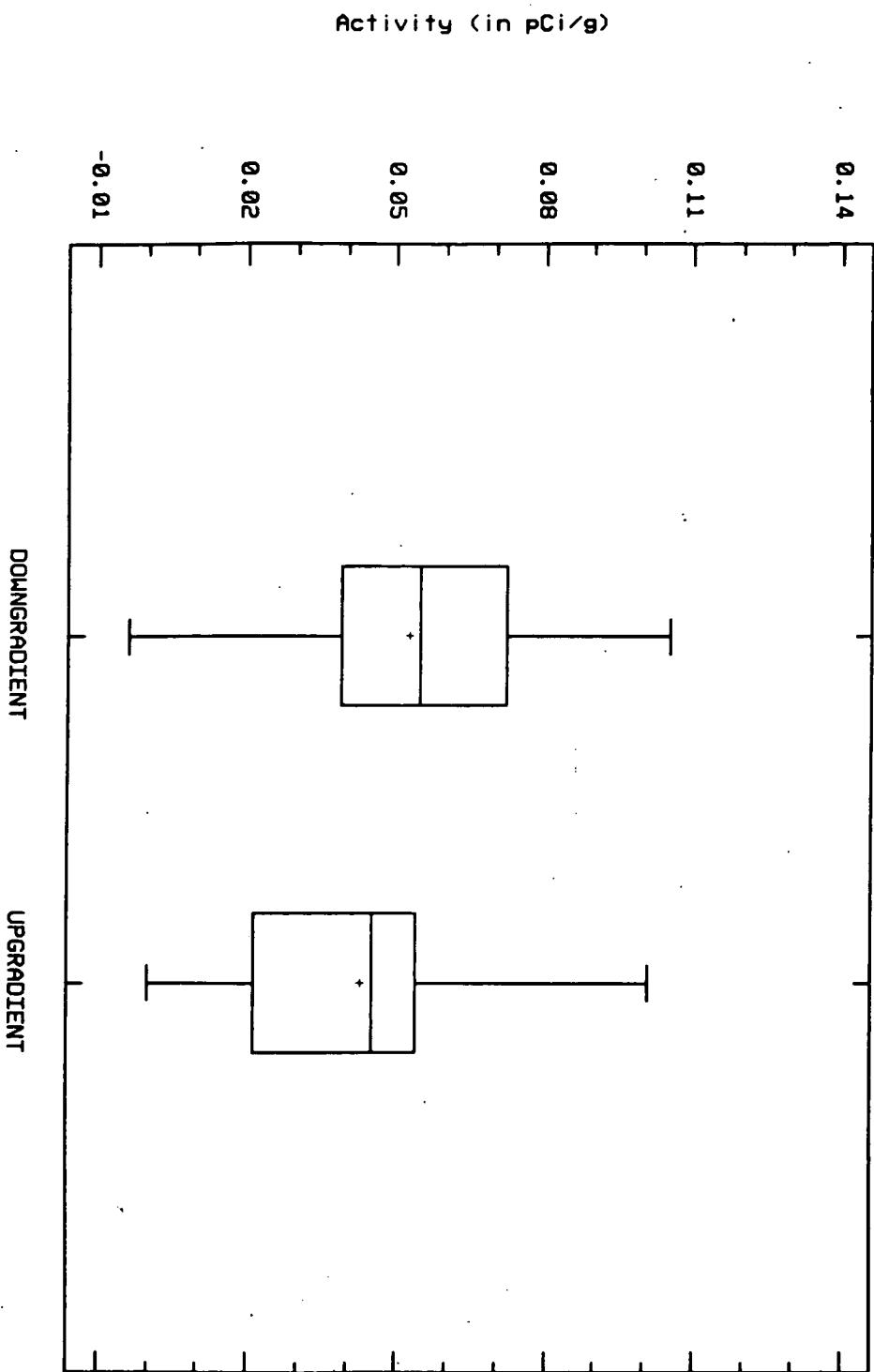


Uranium-233, -234 (Total): Subsurface Soils

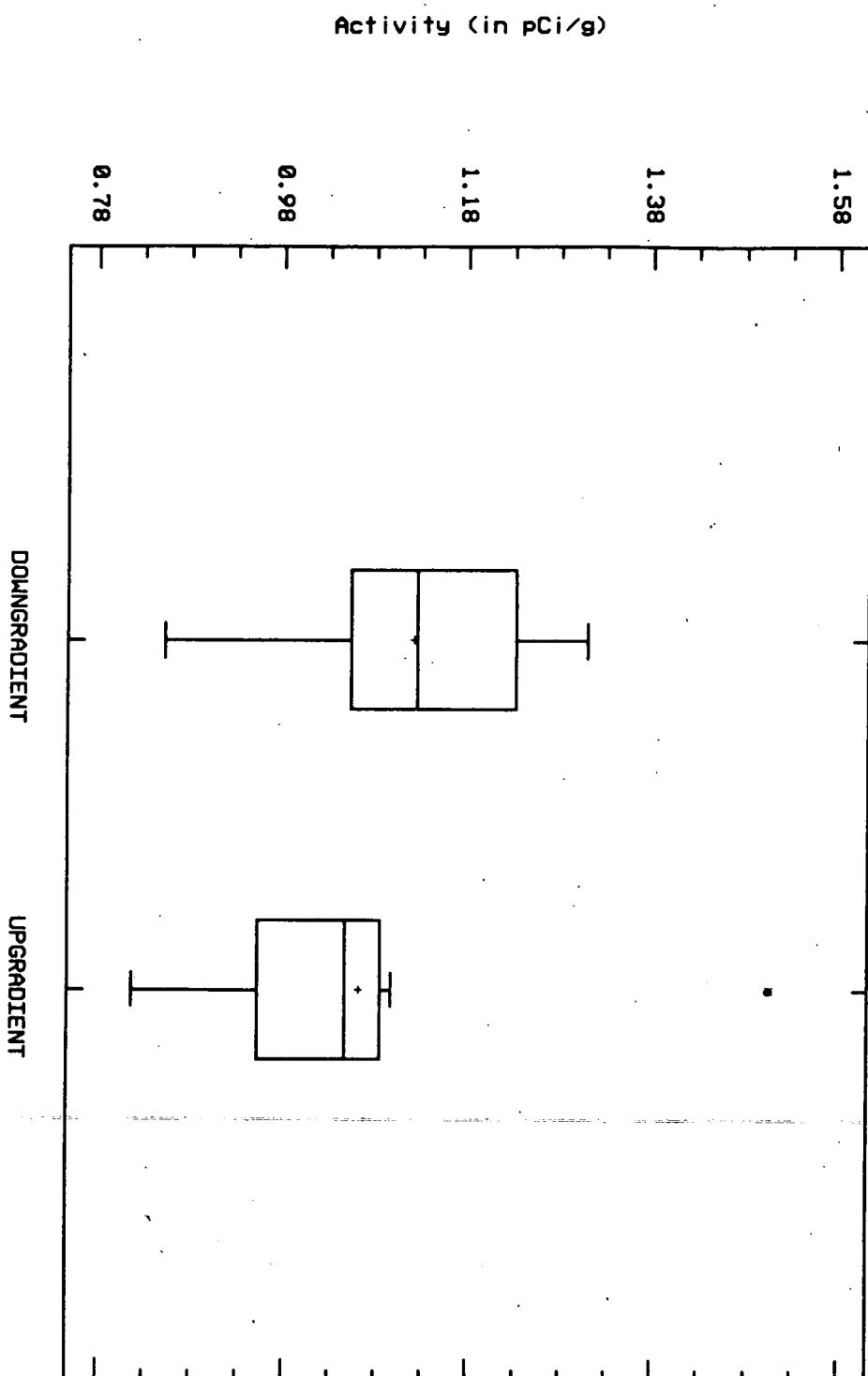
Background vs. OUT KAKI (ω)



Uranium-235 (Total): Subsurface Soils
Background vs. OUT Kaki (w)

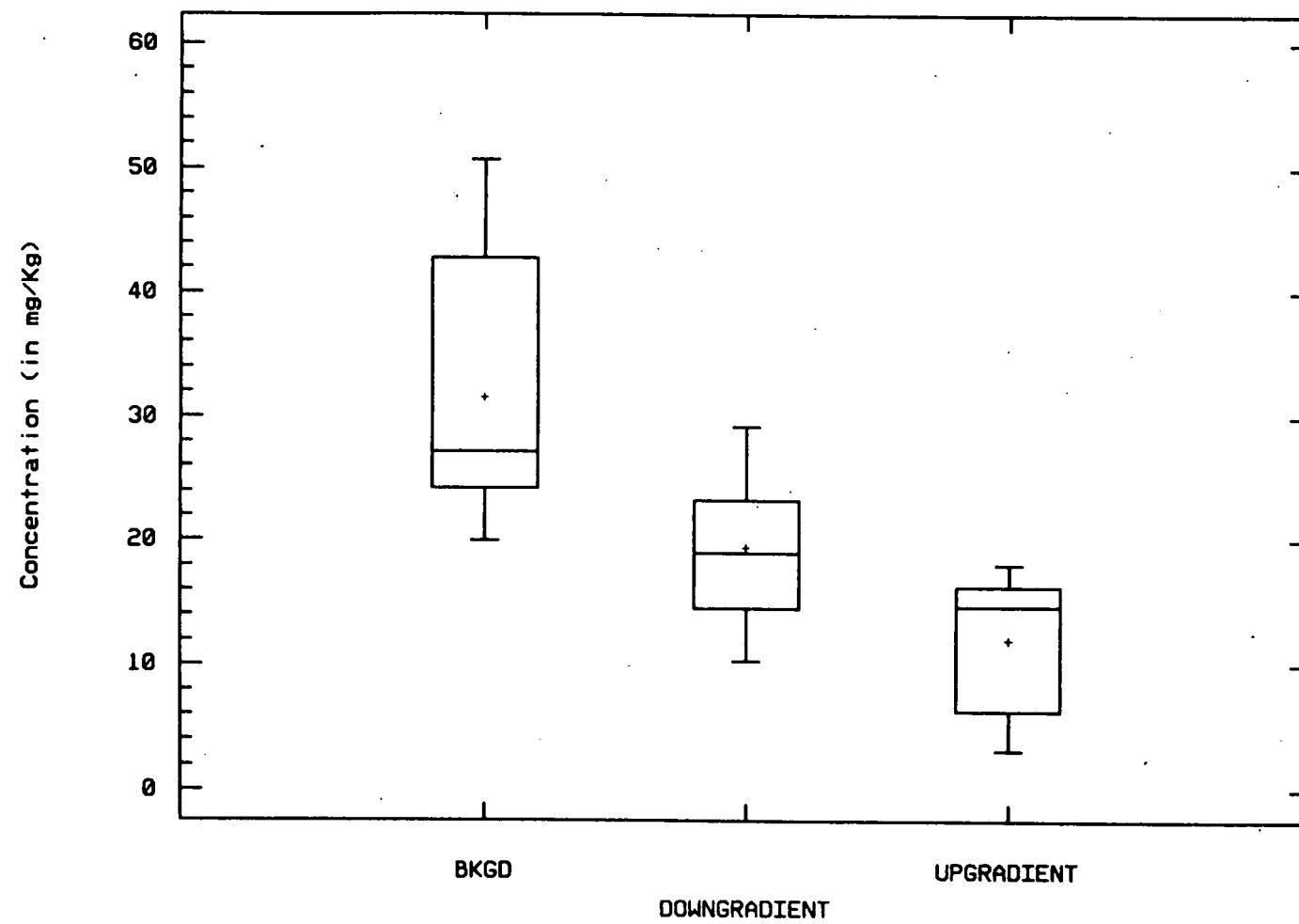


Uranium-238 (Total): Subsurface Soils
Background vs. OUT KAKI (w)

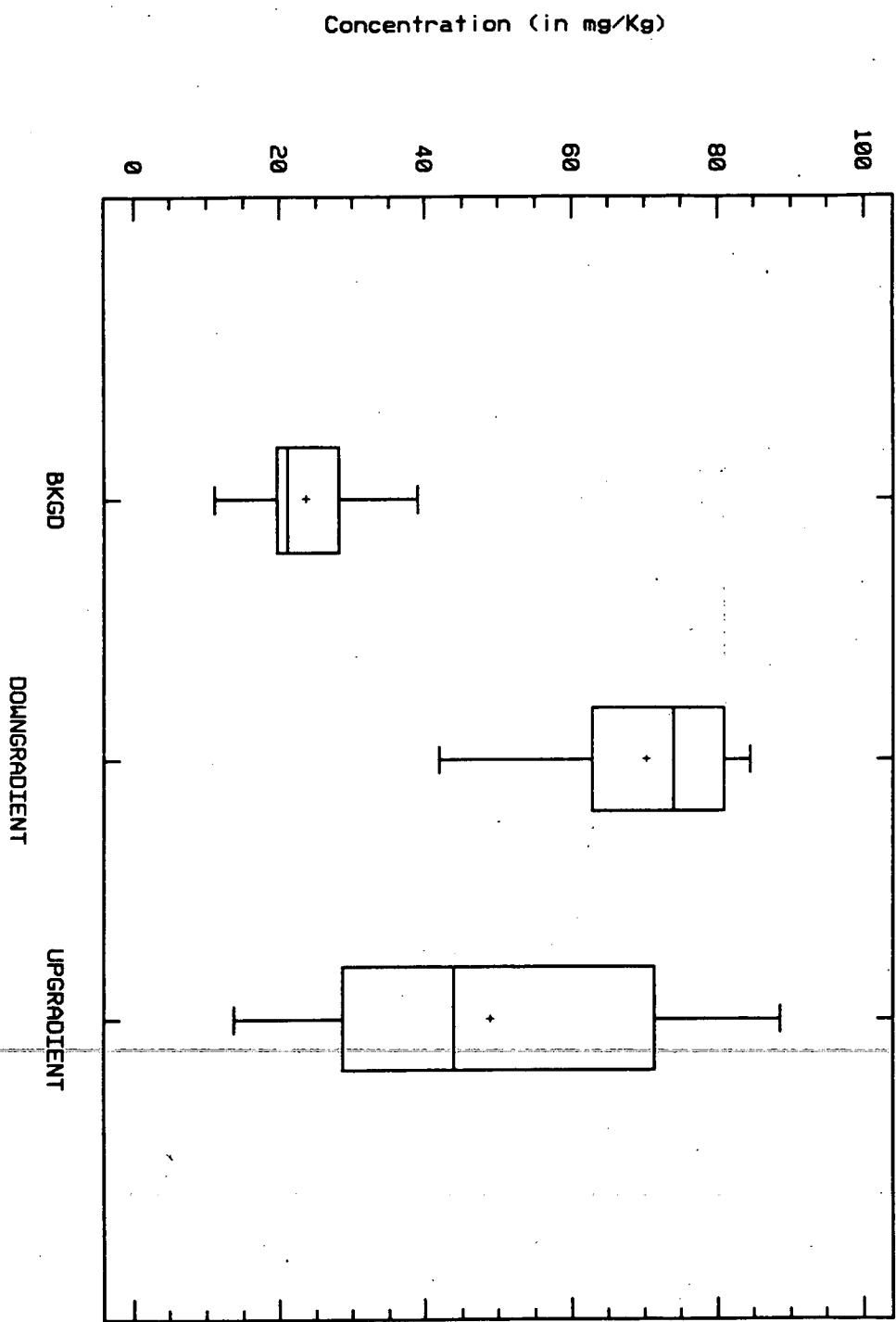


Vanadium (Total): Subsurface Soils

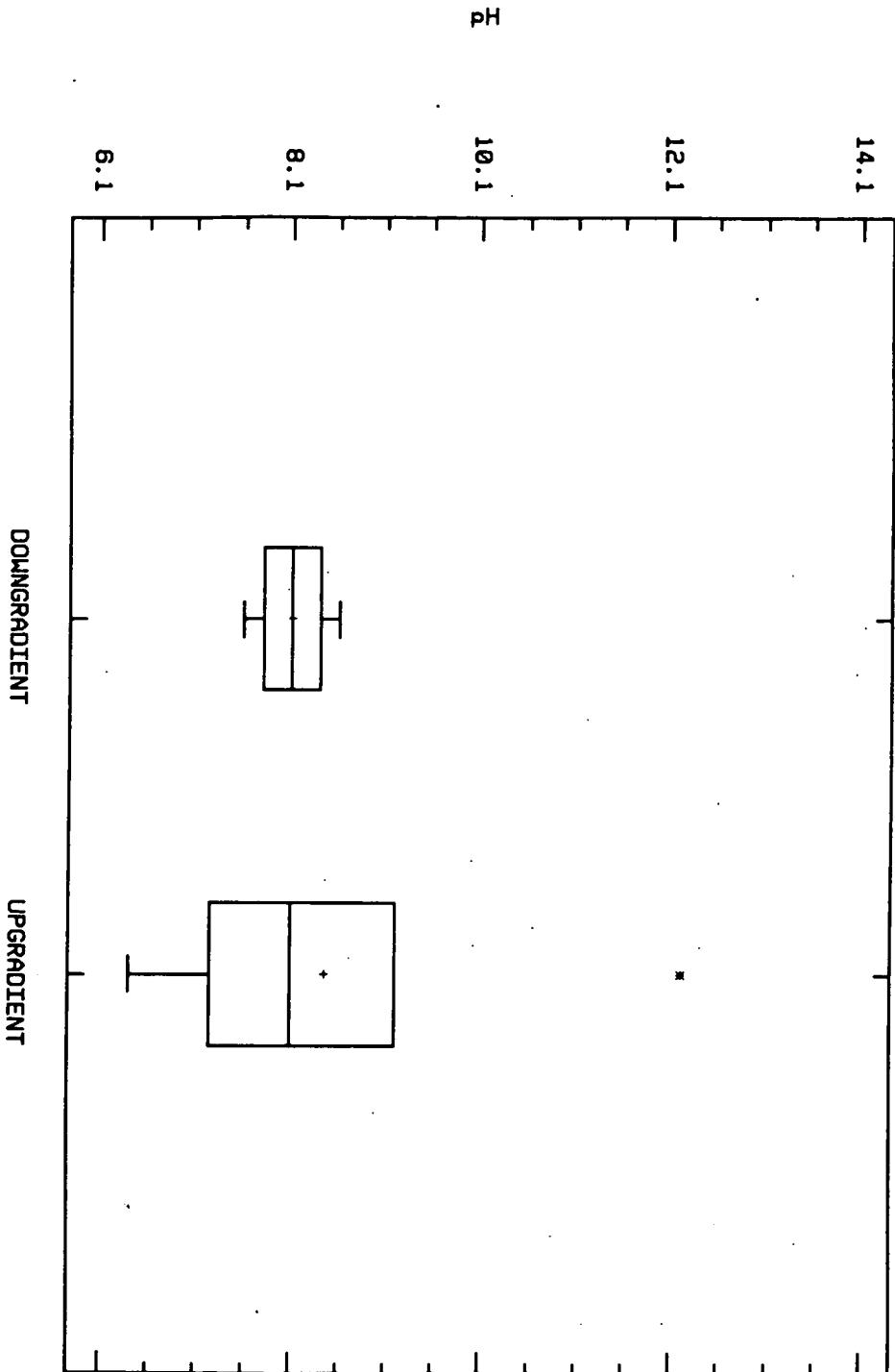
Background vs. 0U7 KaKI (u)



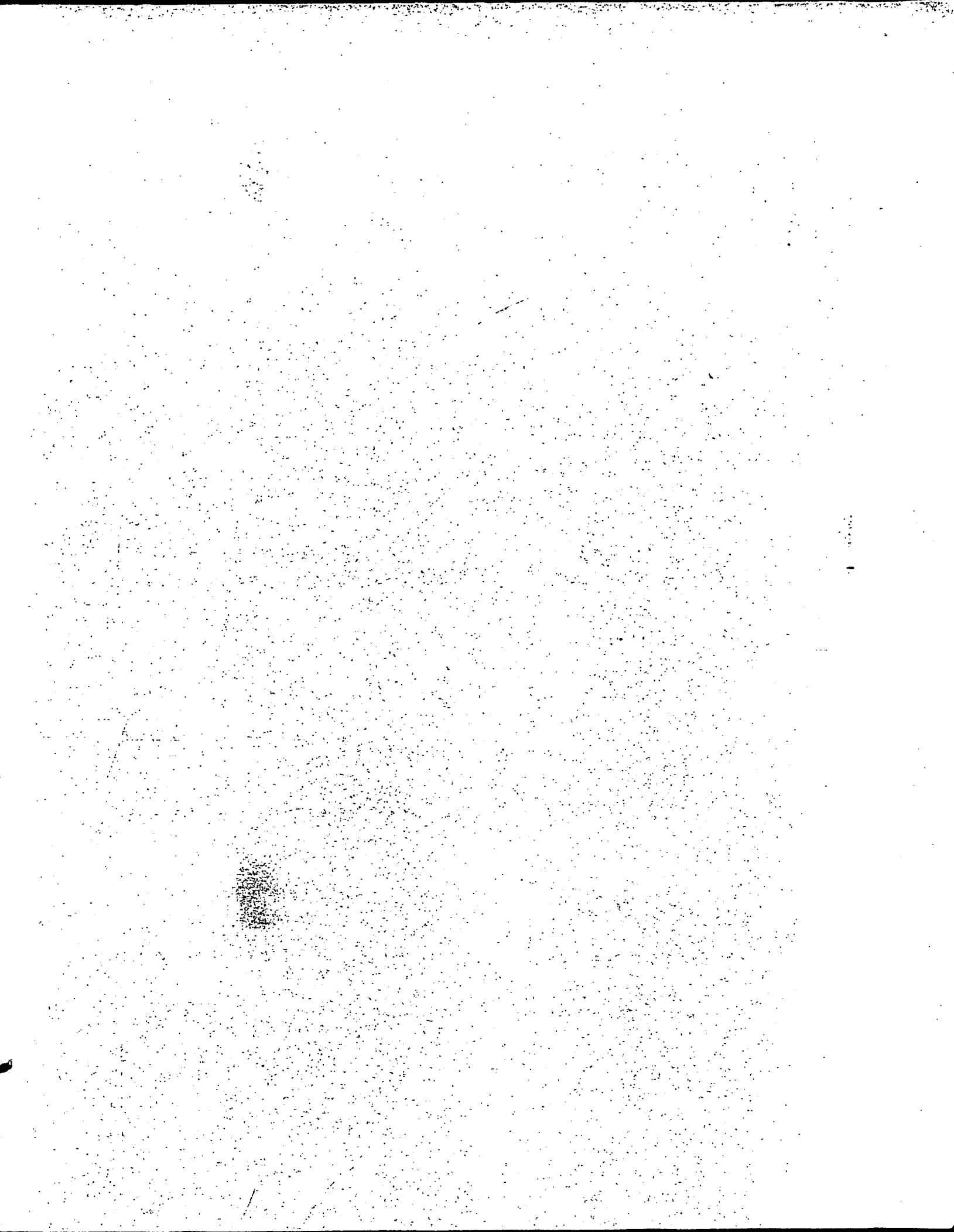
Zinc (Total): Subsurface Soils
Background vs. OUT Kaki (w)



pH (Total): Subsurface Soils
Background vs. 0U7 KaK1 (w)

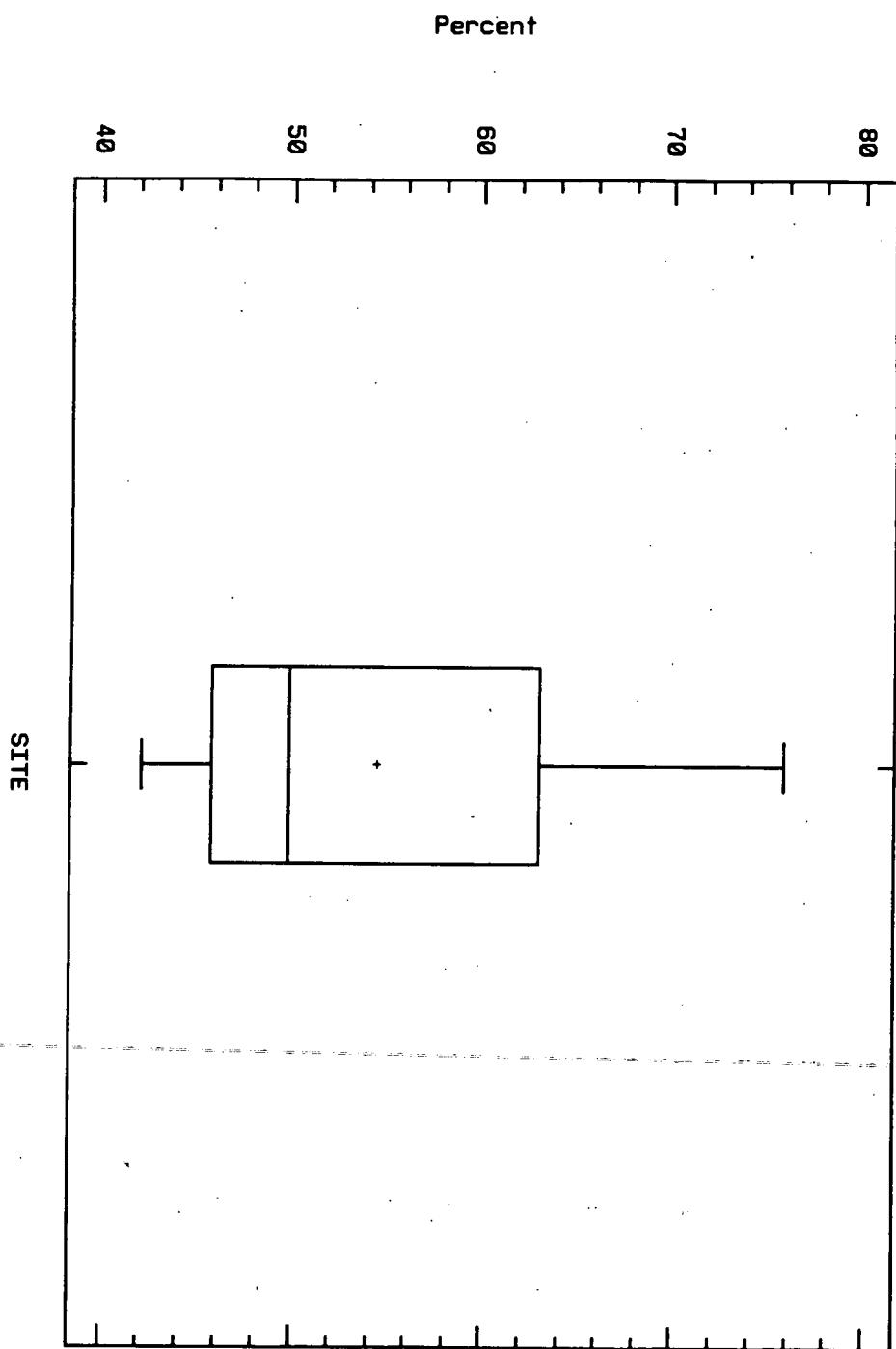


Sediments

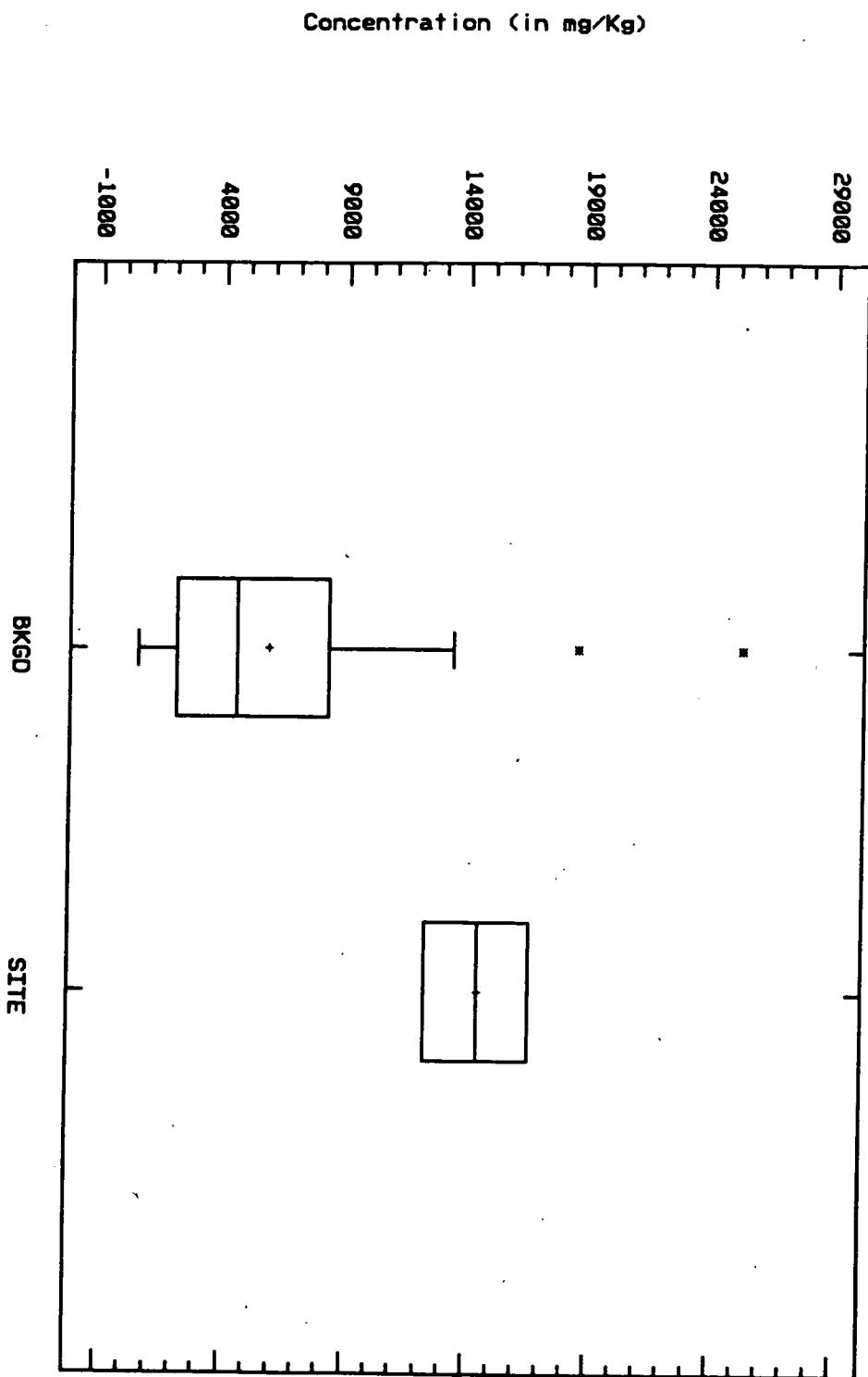


% Solids (Total): Sediments

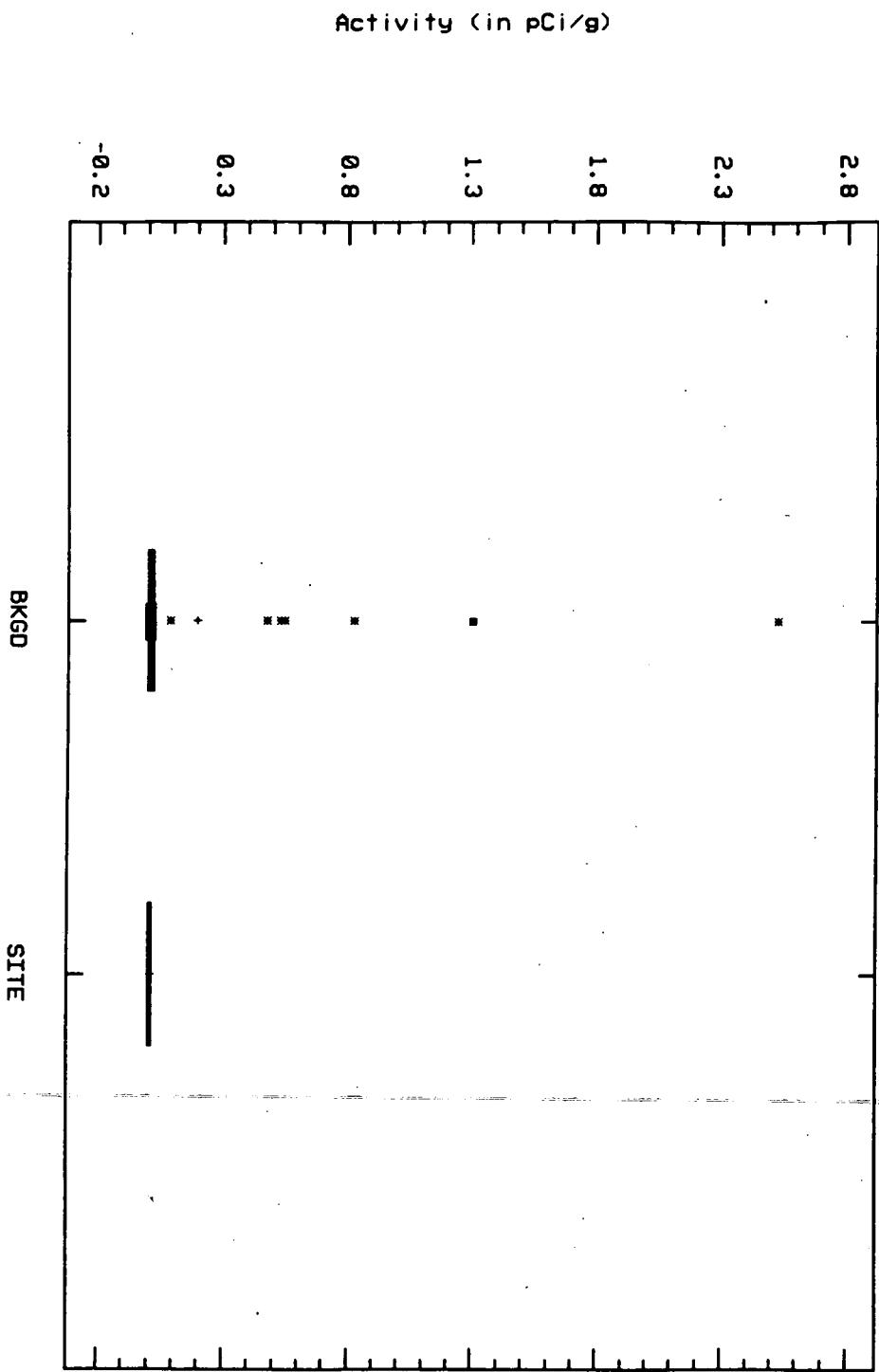
Background vs. OUT



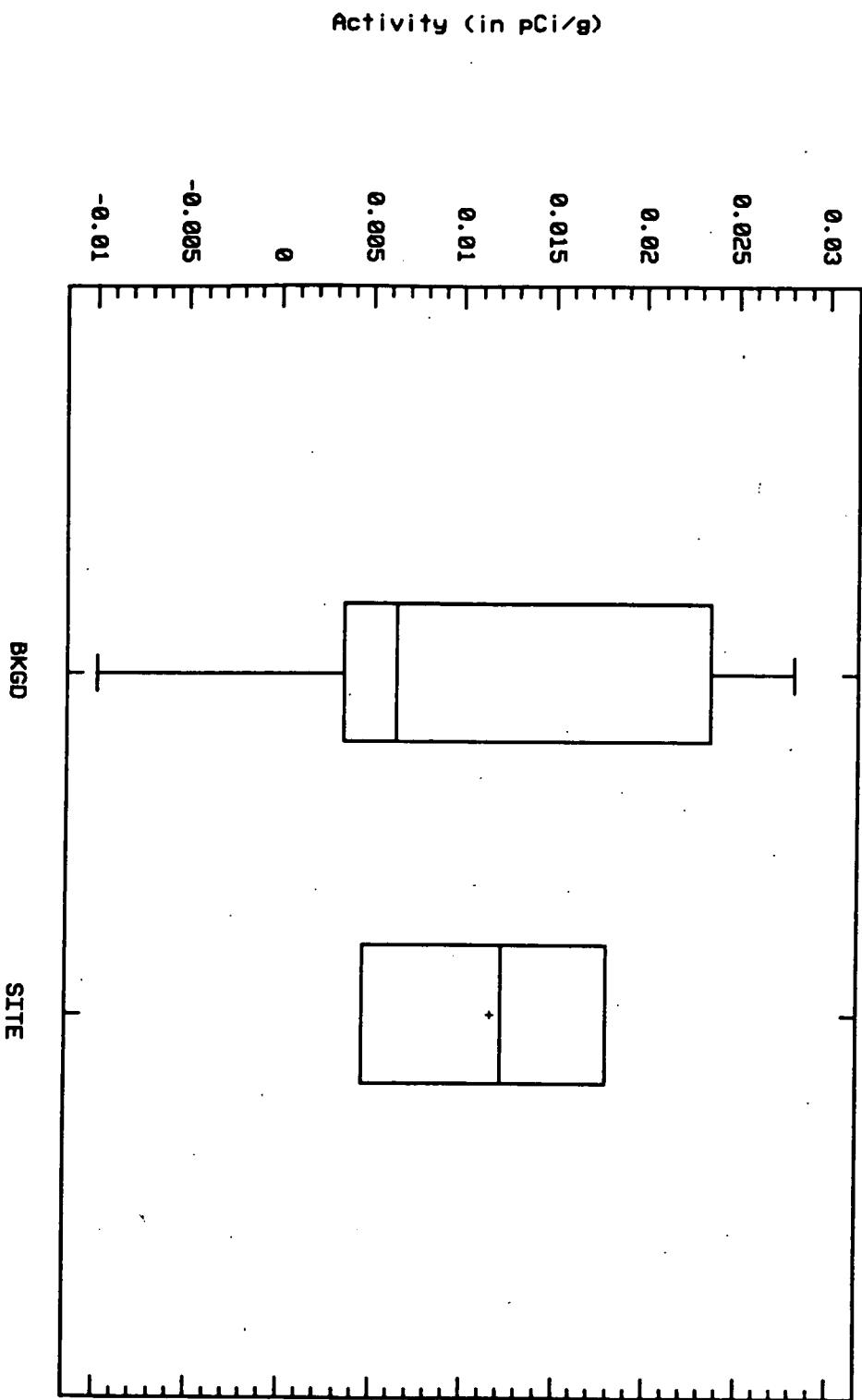
Aluminum (Total): Sediments
Background vs. OUT



Americium-241 (Total): Sediments
Background vs. OUT

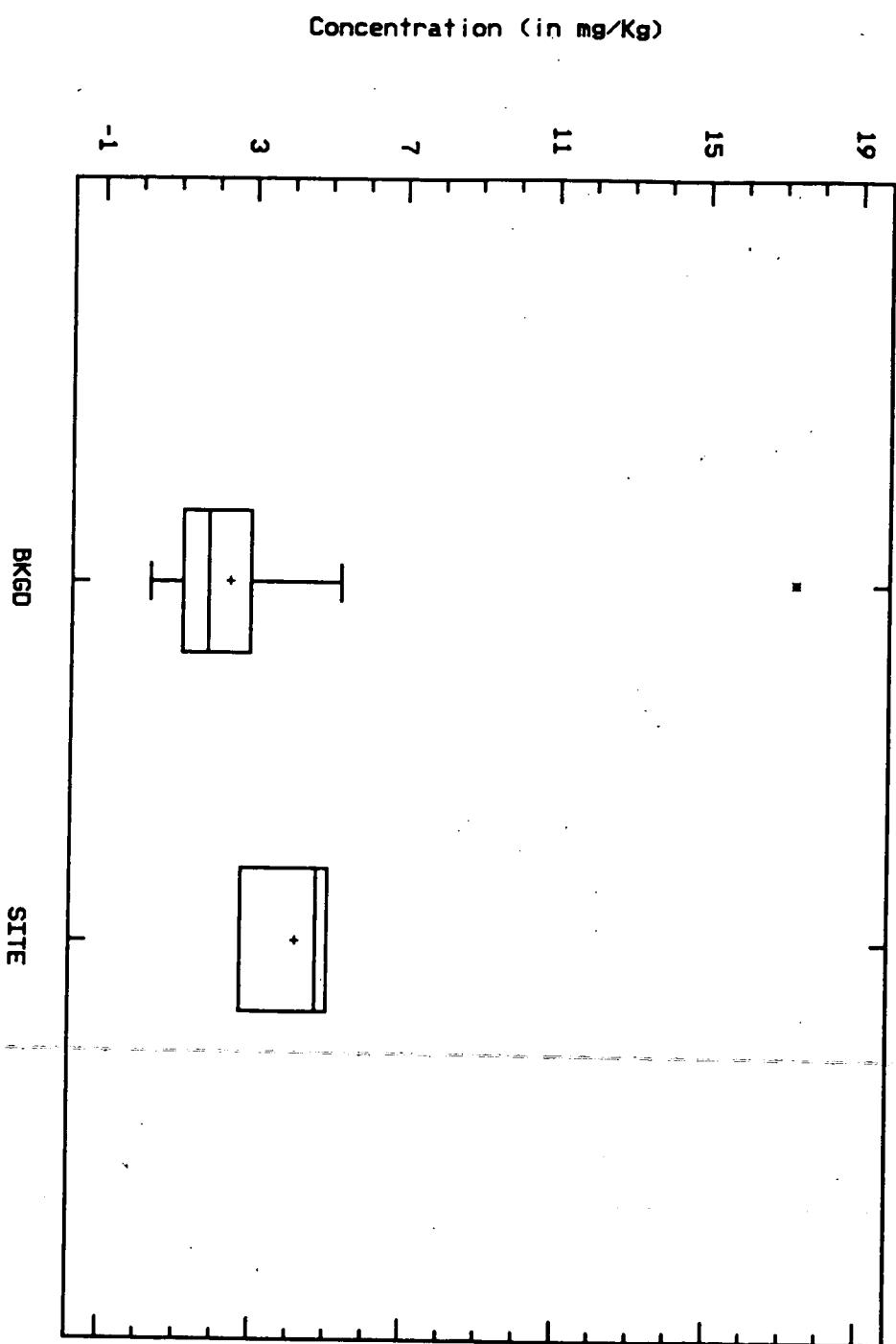


Americium-241 (Total): Sediments
Background vs. OUT



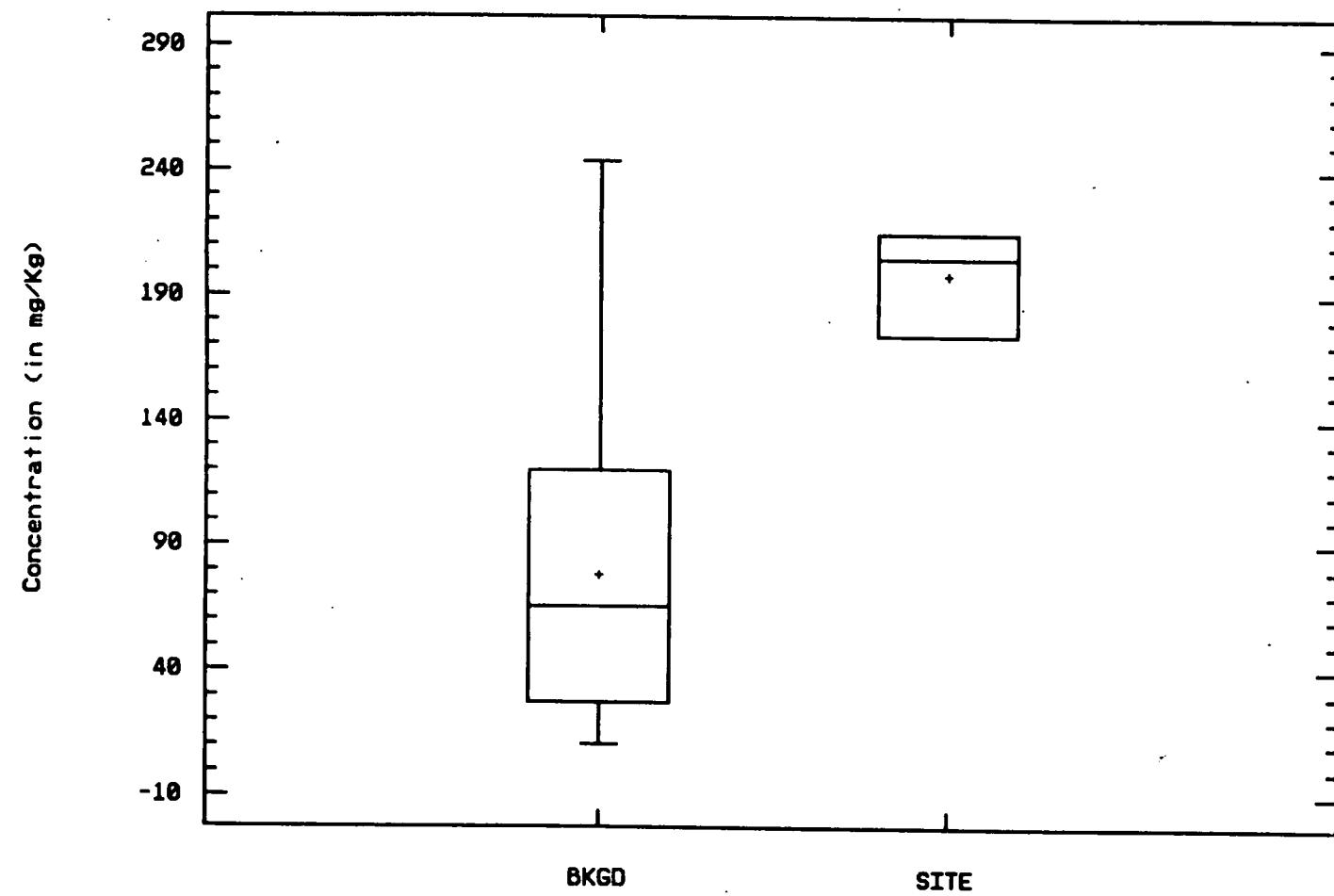
Arsenic (Total): Sediments

Background vs. OUT

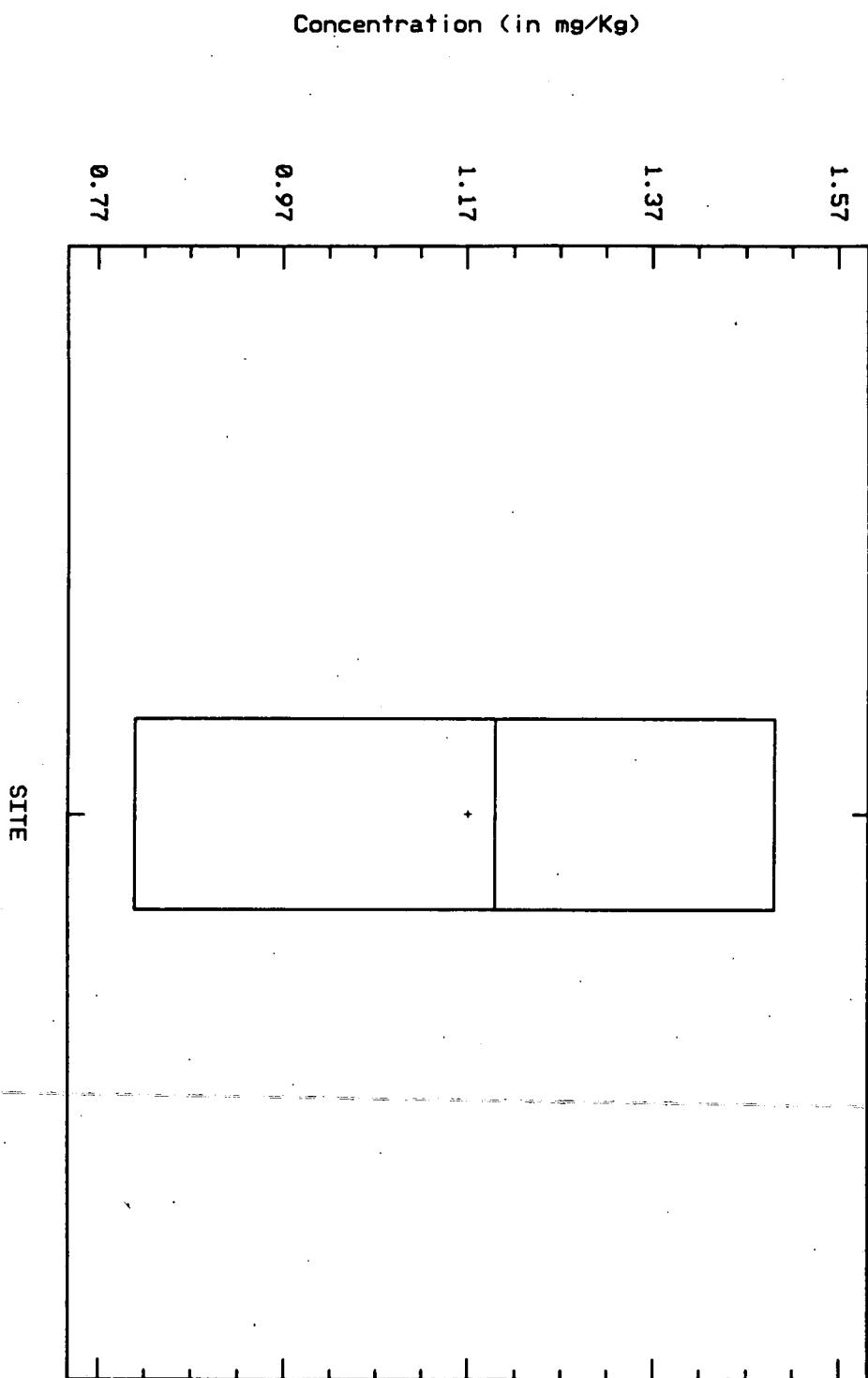


Barium (Total): Sediments

Background vs. OU7

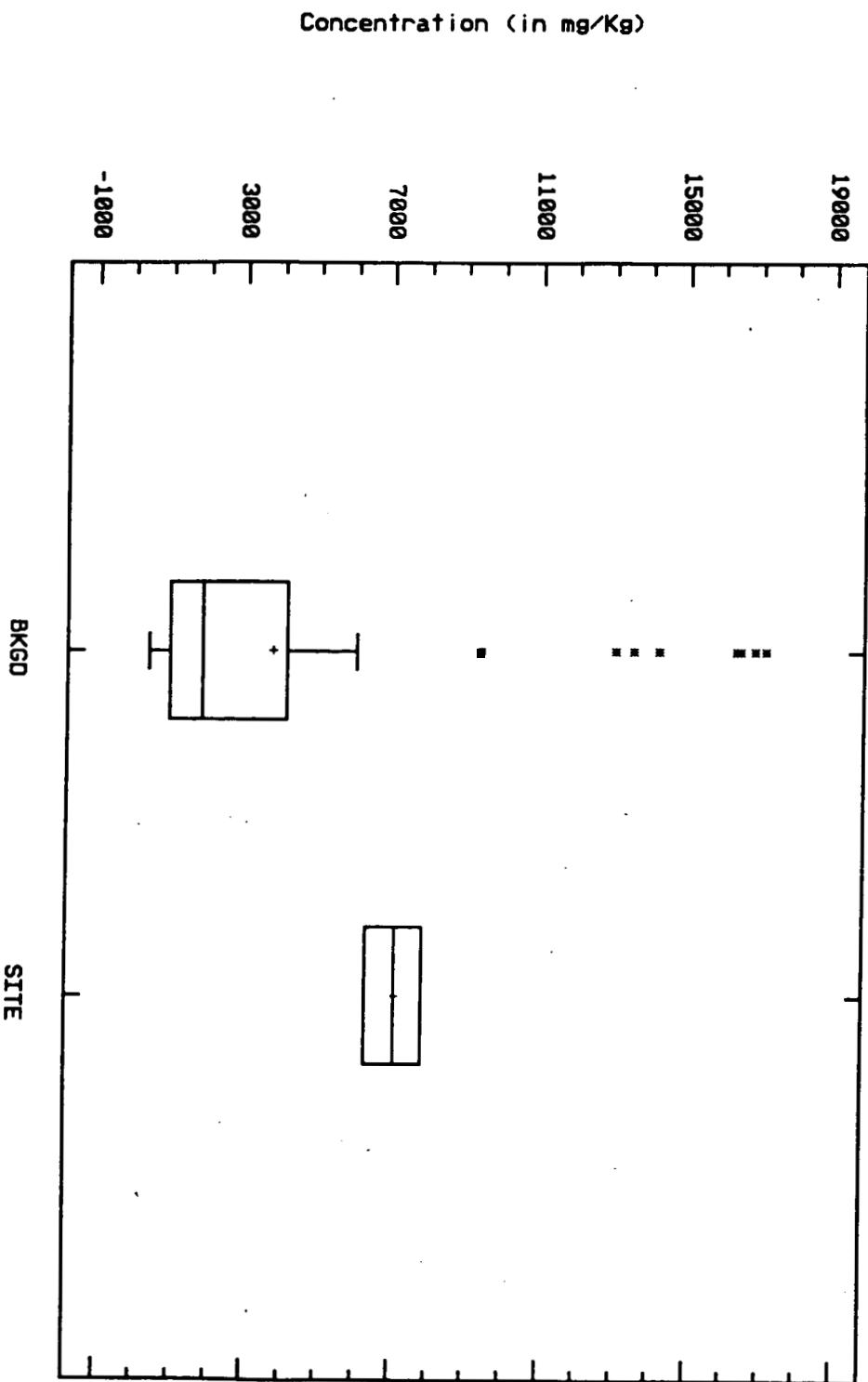


Beryllium (Total): Sediments
Background vs. OUT



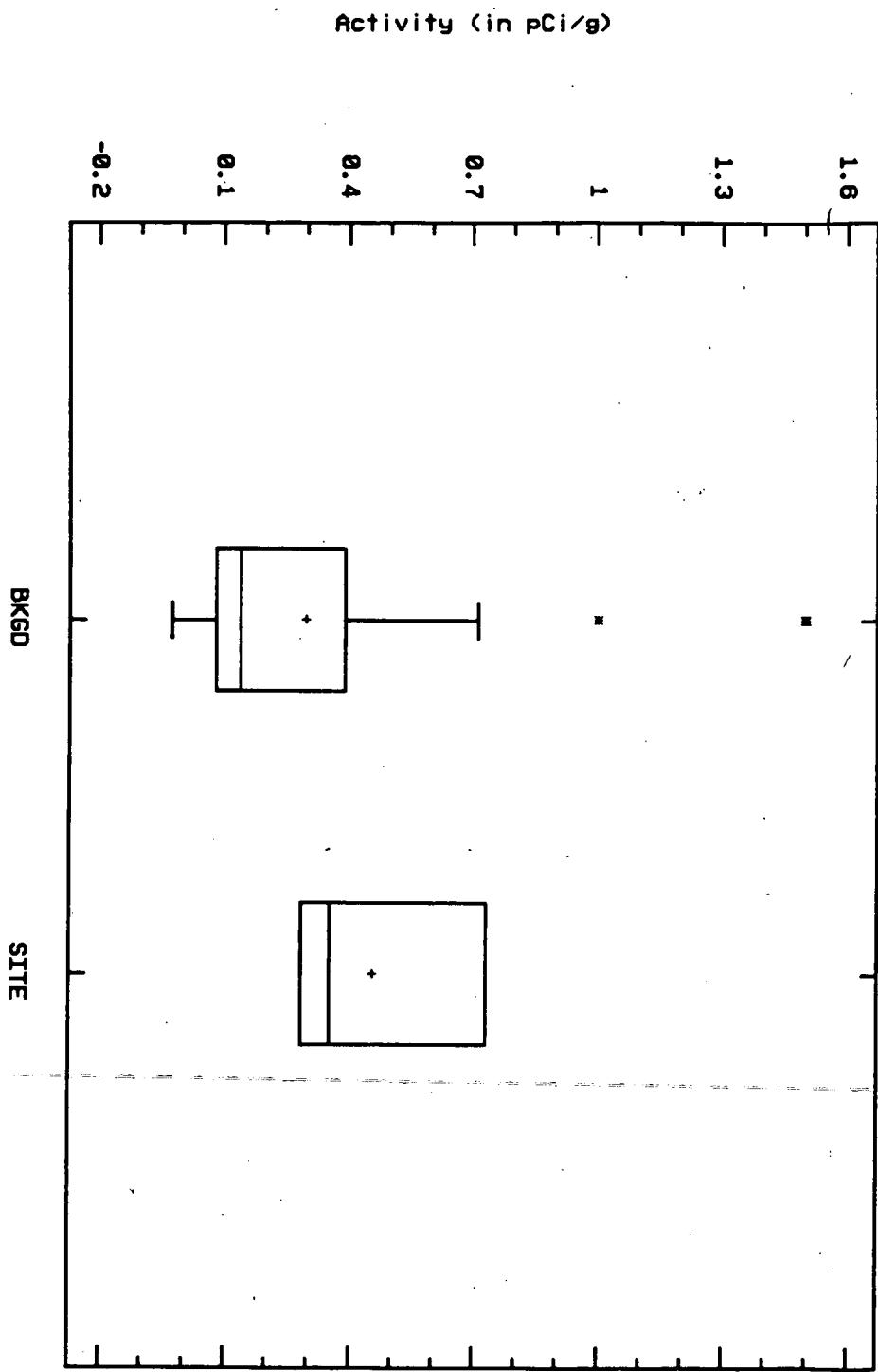
Calcium (Total): Sediments

Background vs. 0U7

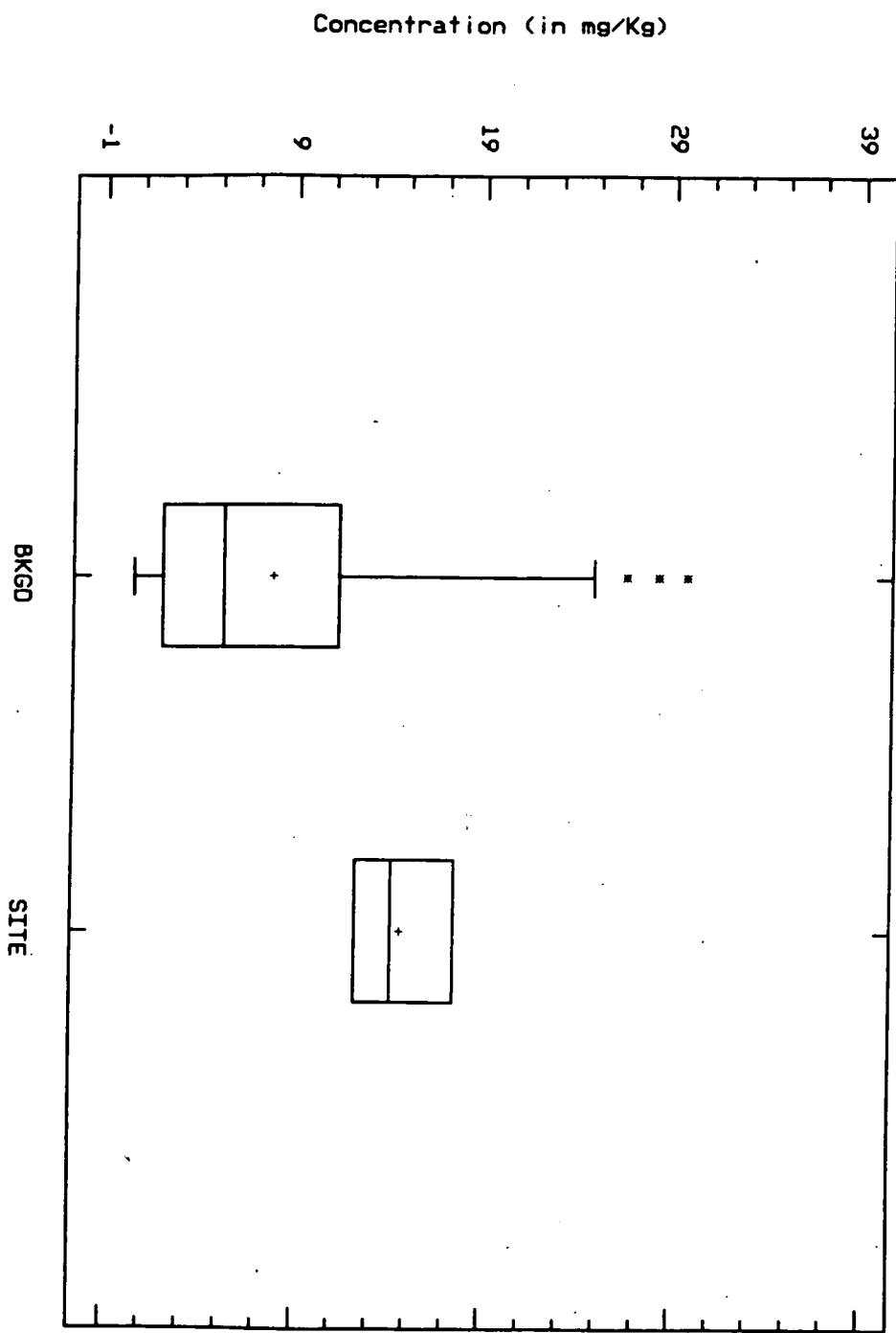


Cesium-137 (Total): Sediments

Background vs. OUT

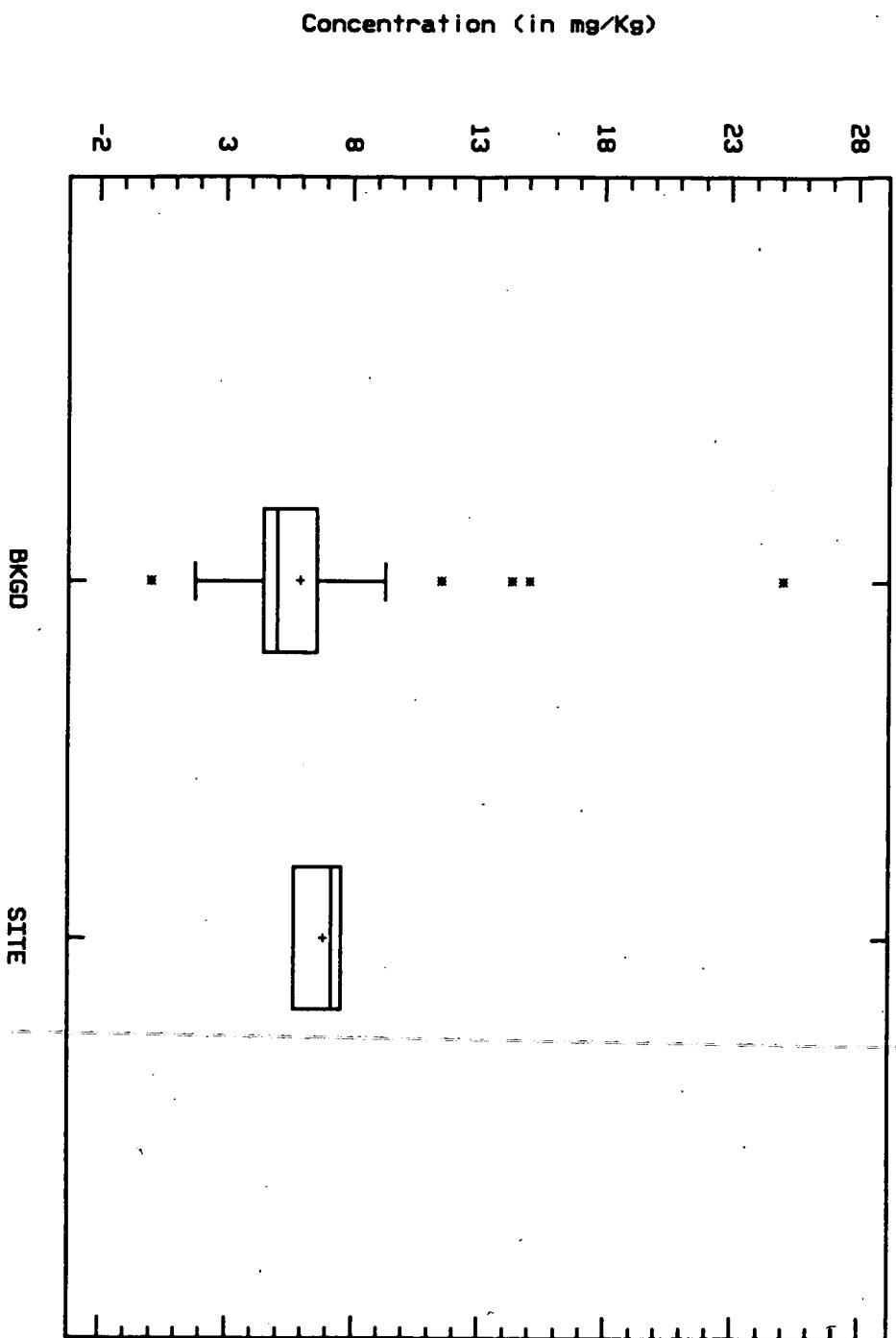


Chromium (Total): Sediments
Background vs. OUT

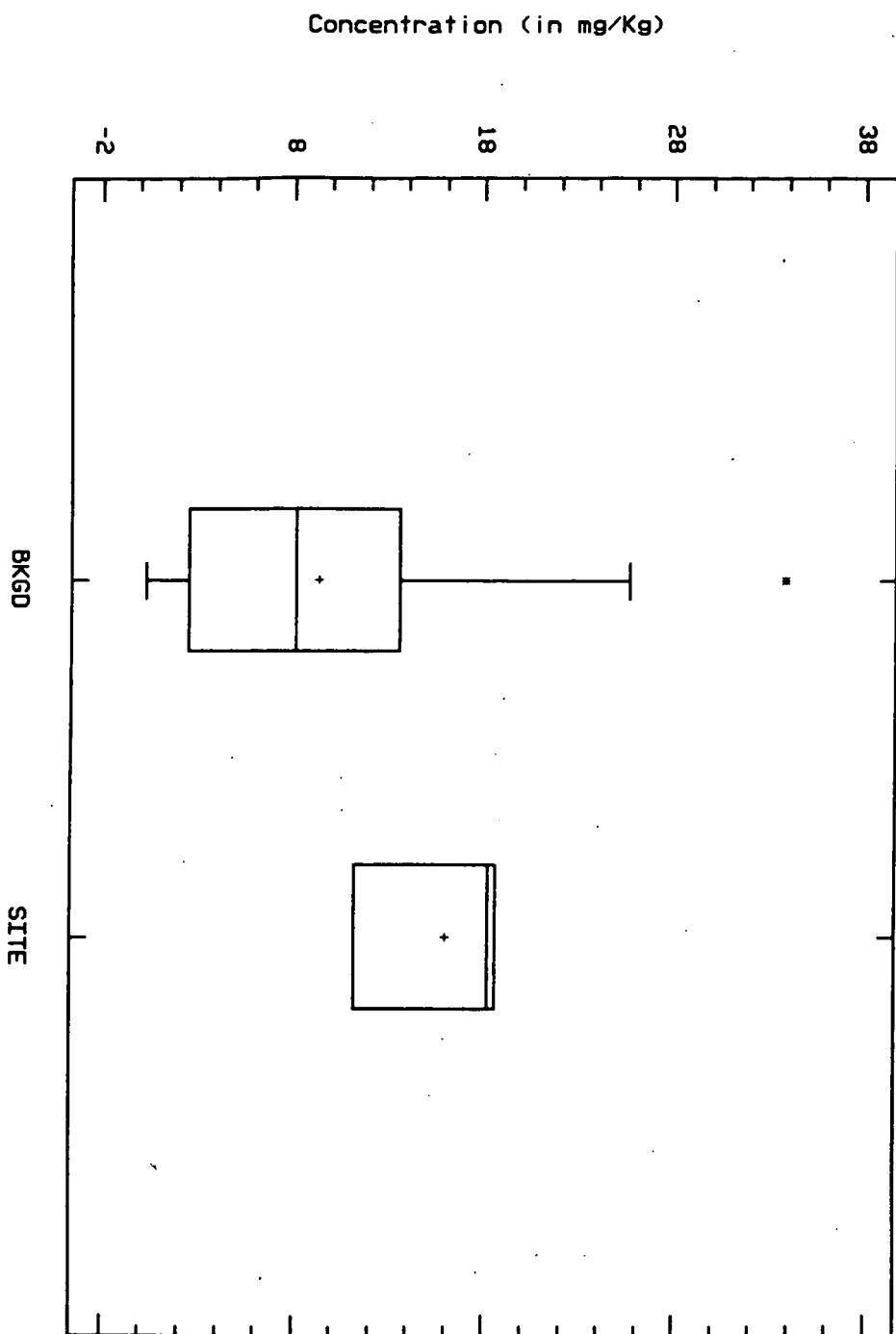


Cobalt (Total): Sediments

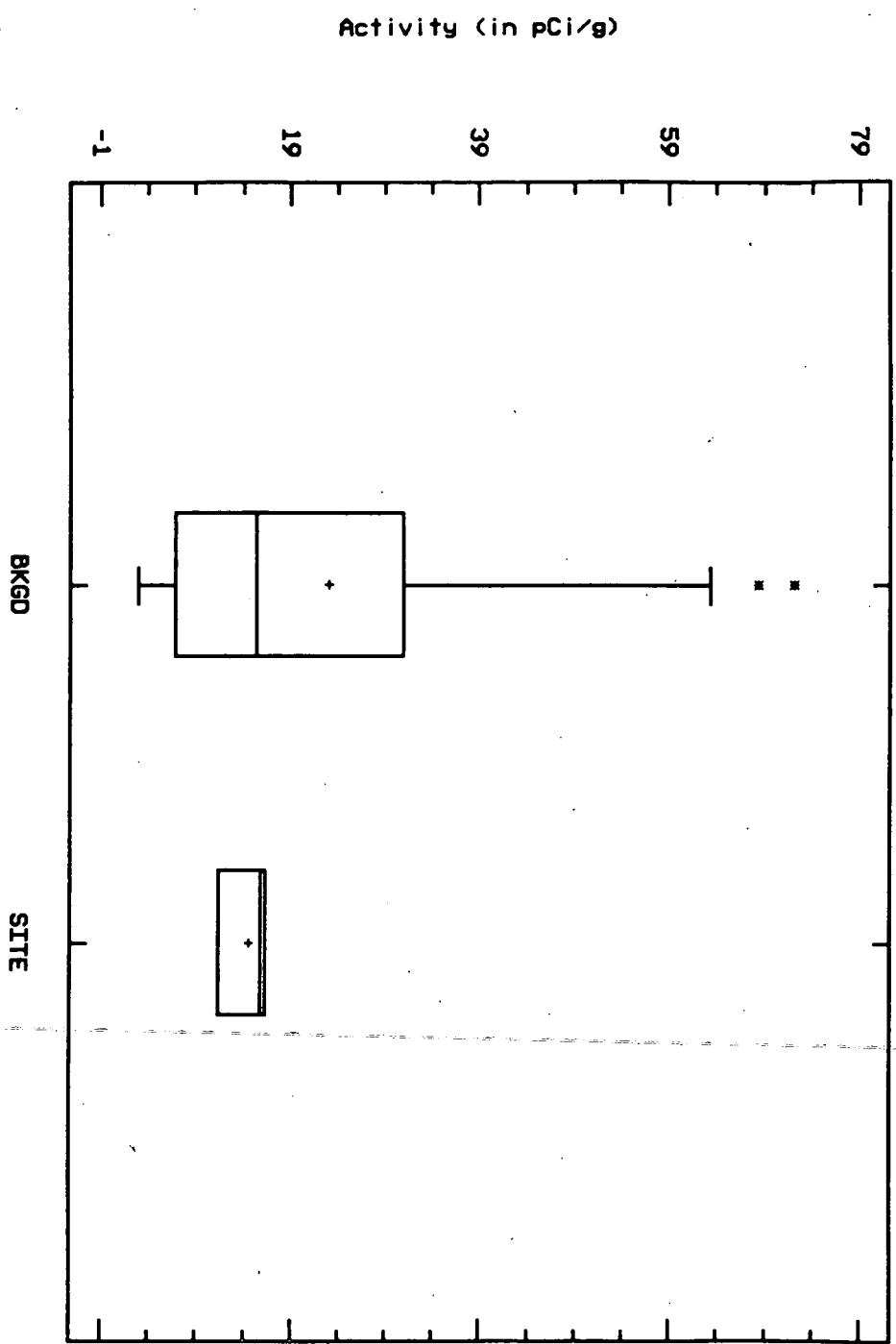
Background vs. OUT



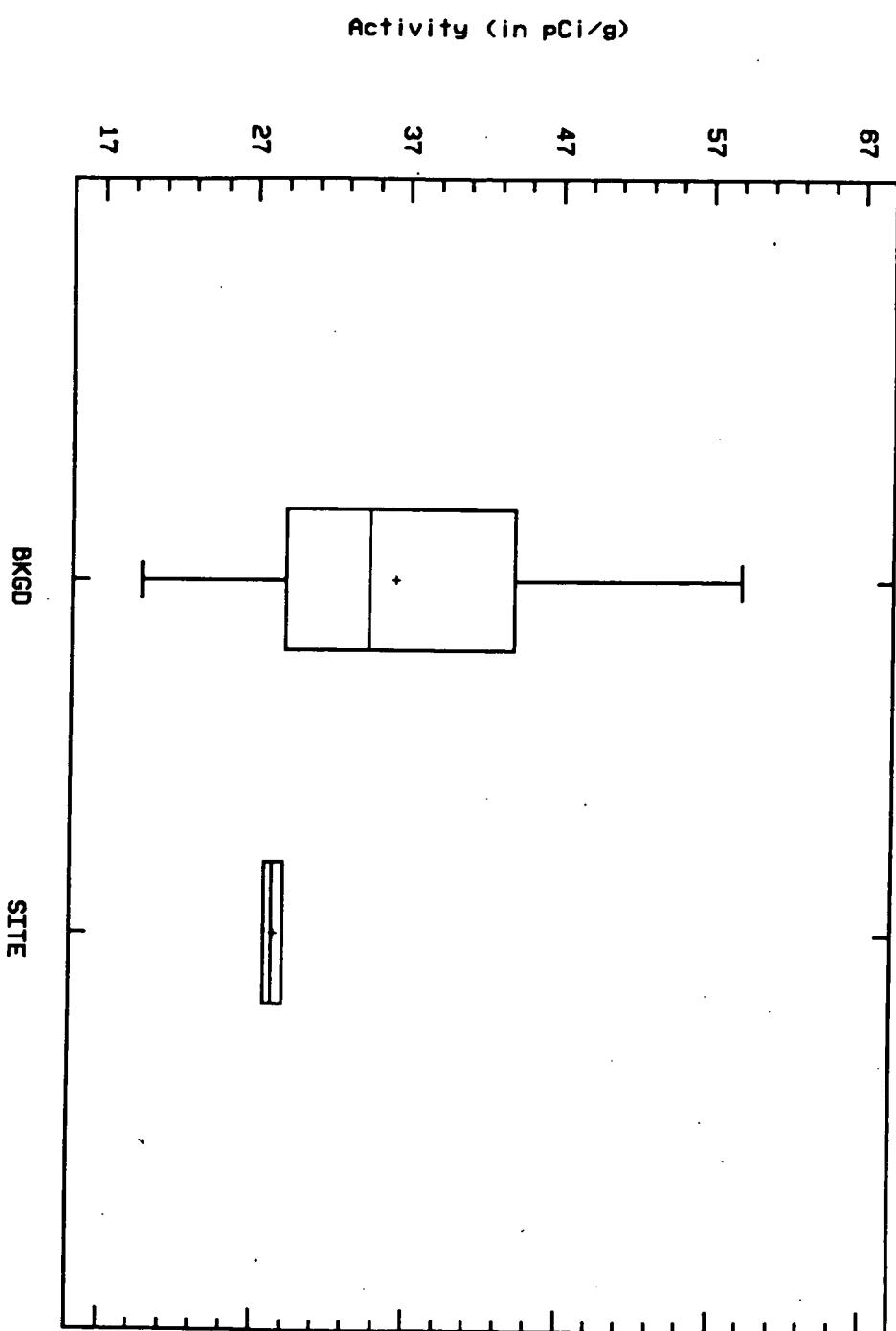
COPPER (Total): Sediments
Background vs. OUT



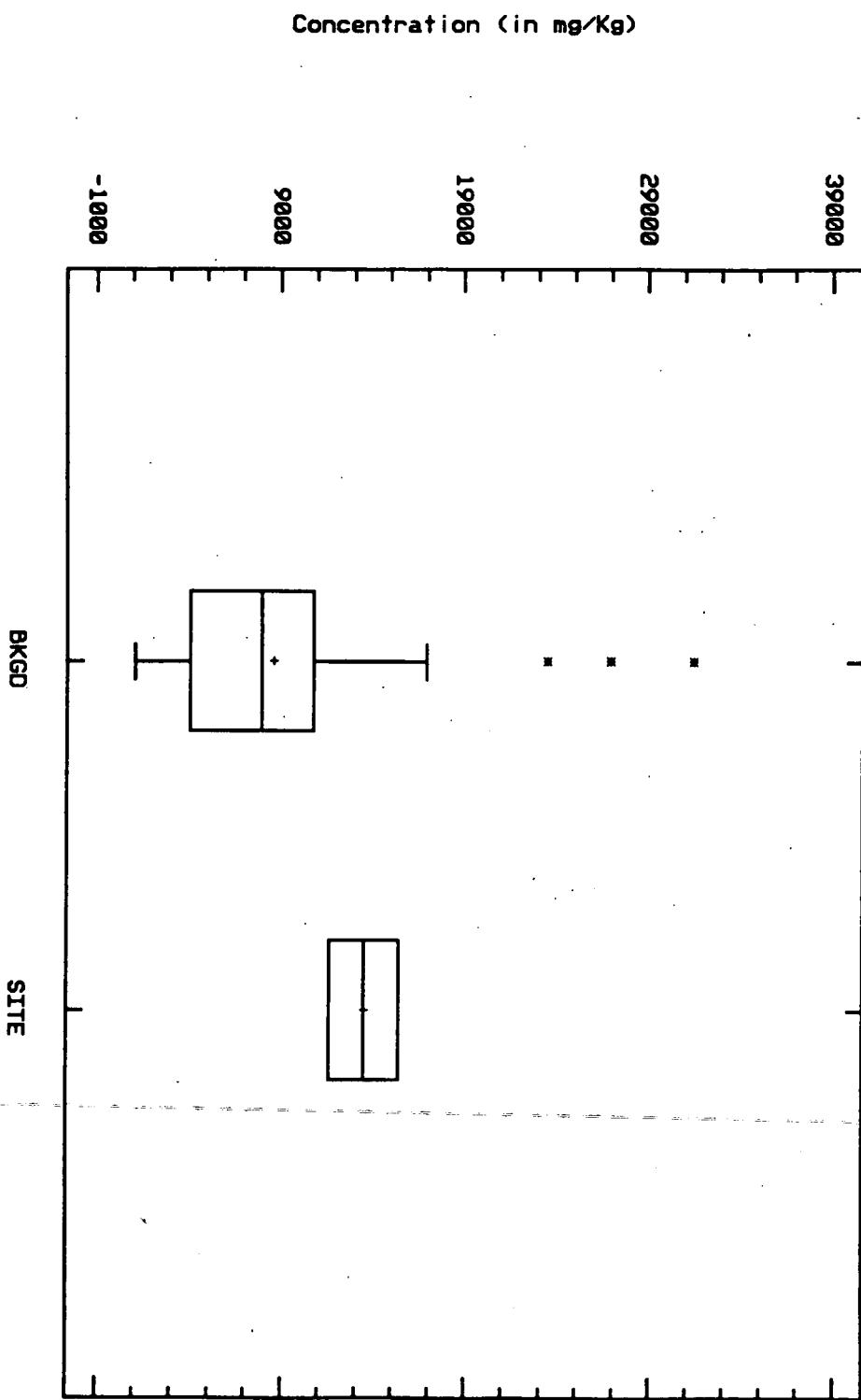
Gross Alpha (Total): Sediments
Background vs. OUT



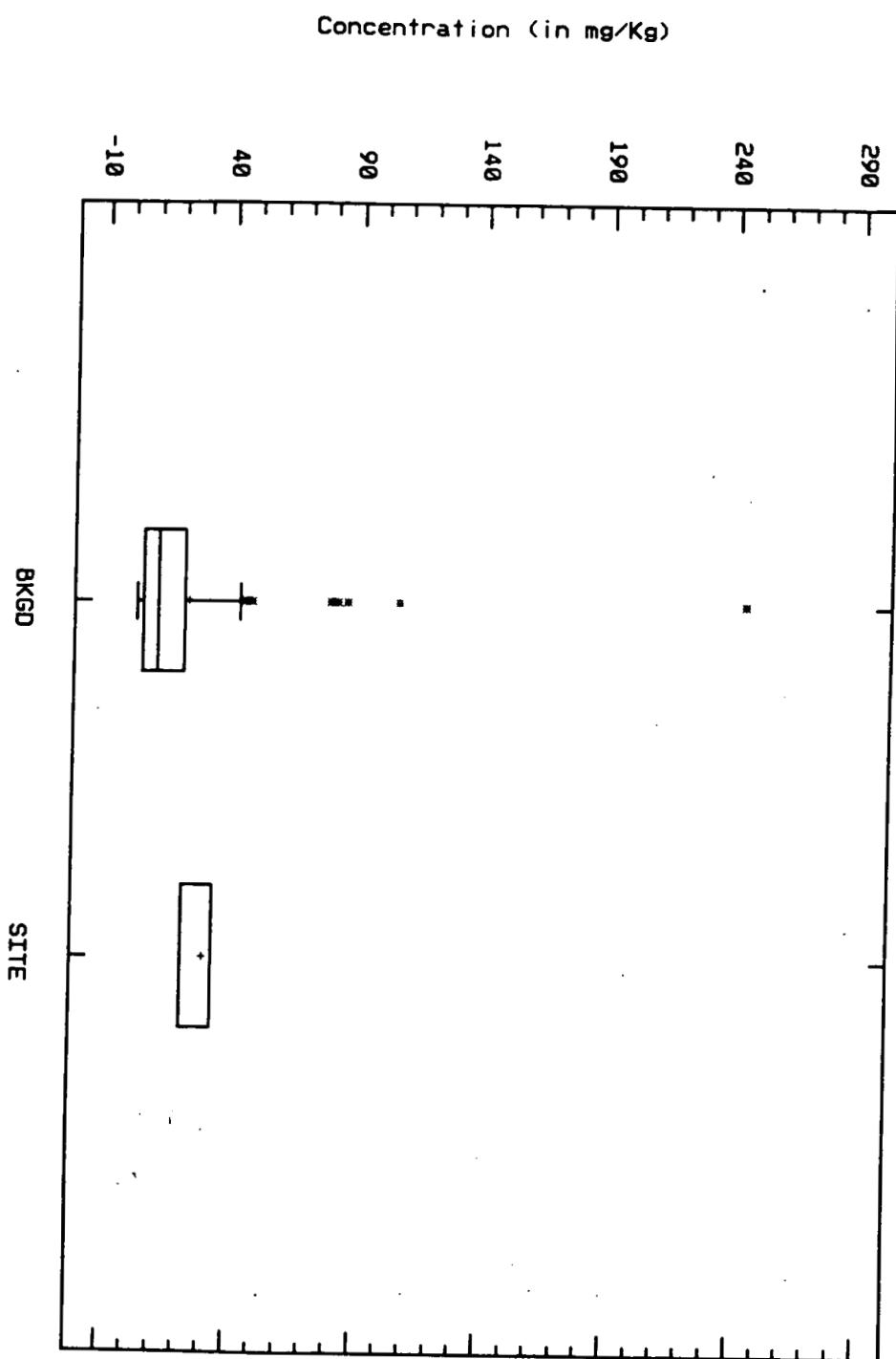
Gross Beta (Total): Sediments
Background vs. OUT



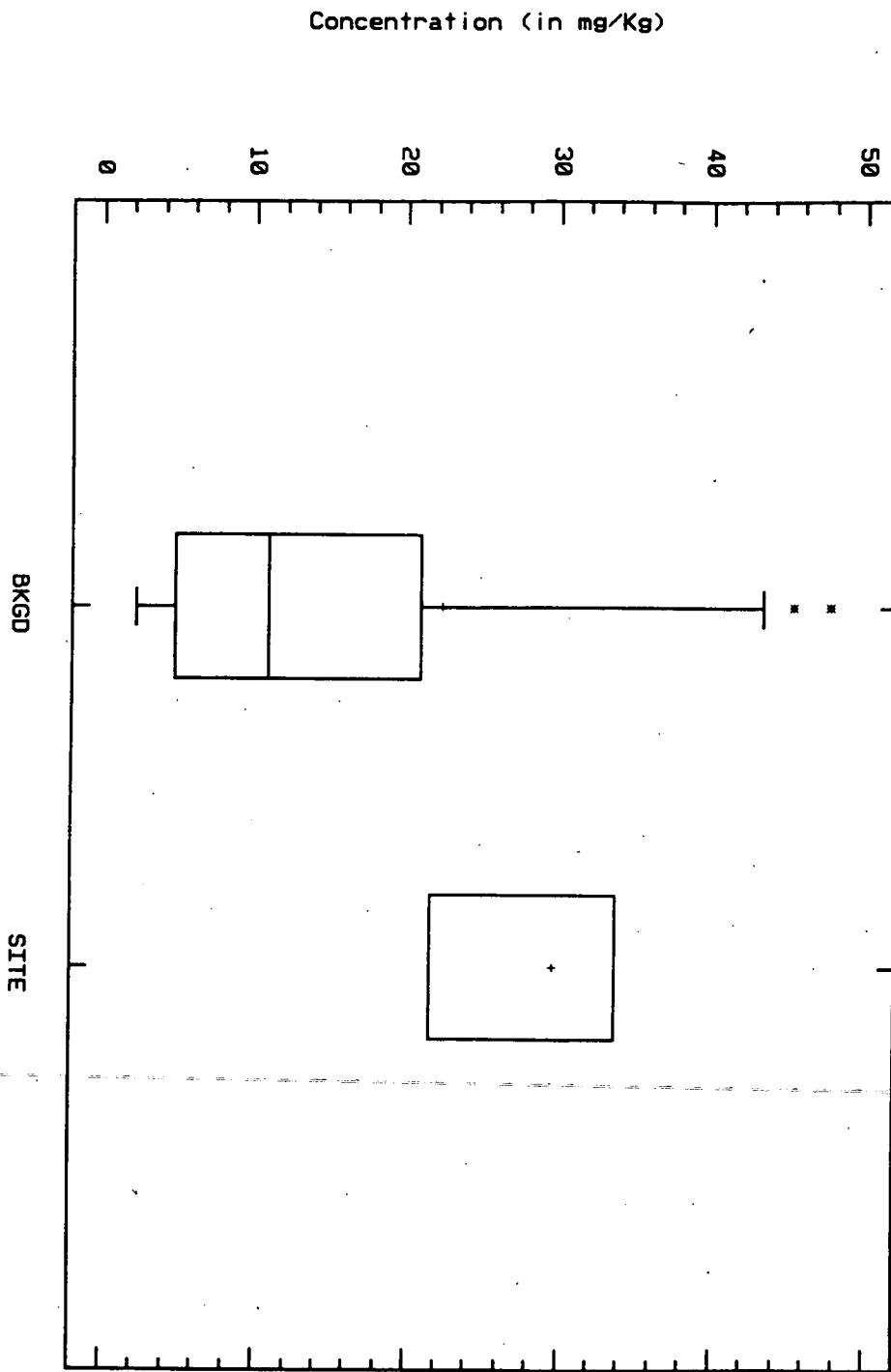
Iron (Total): Sediments
Background vs. OUT



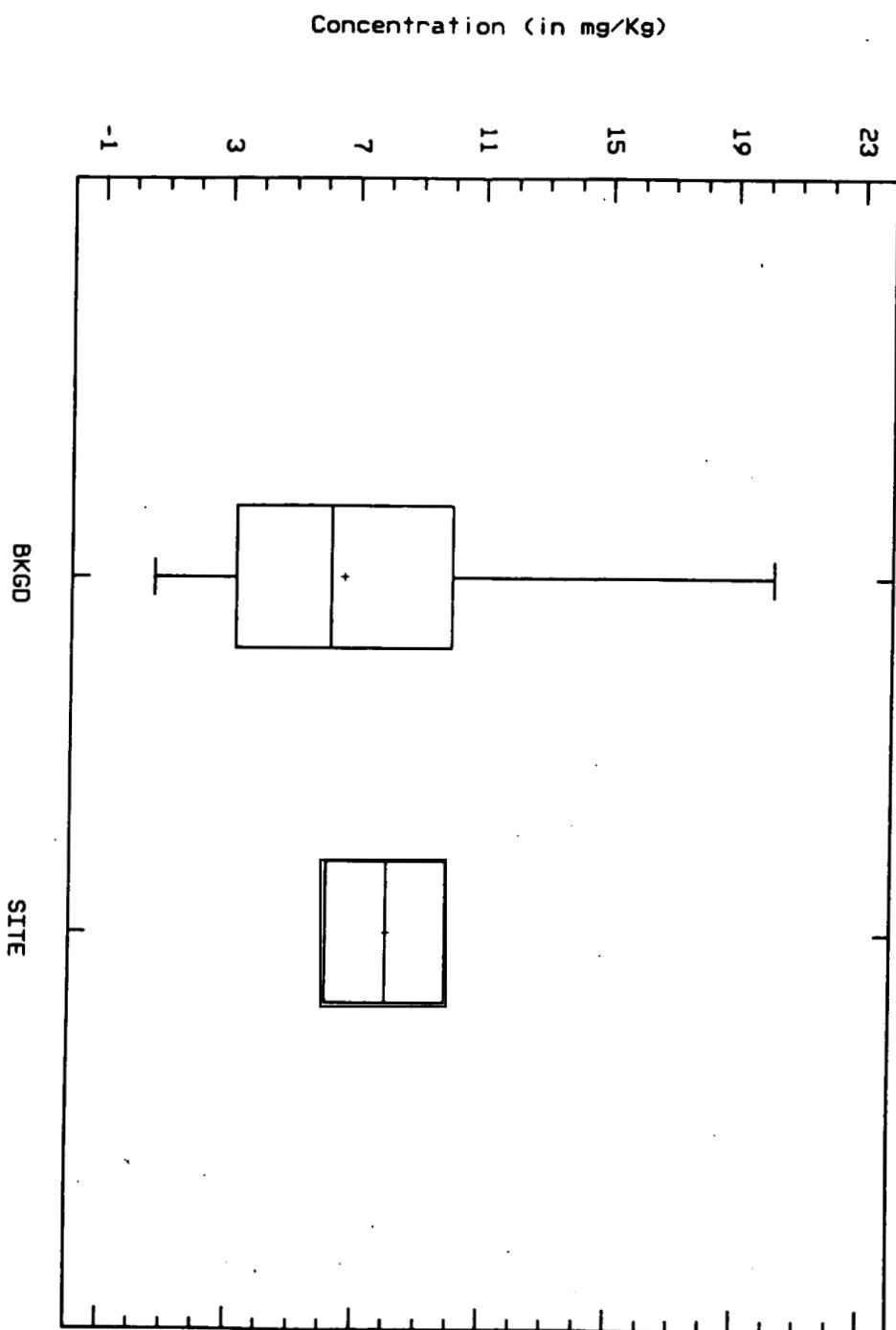
Lead (Total): Sediments
Background vs. OUT



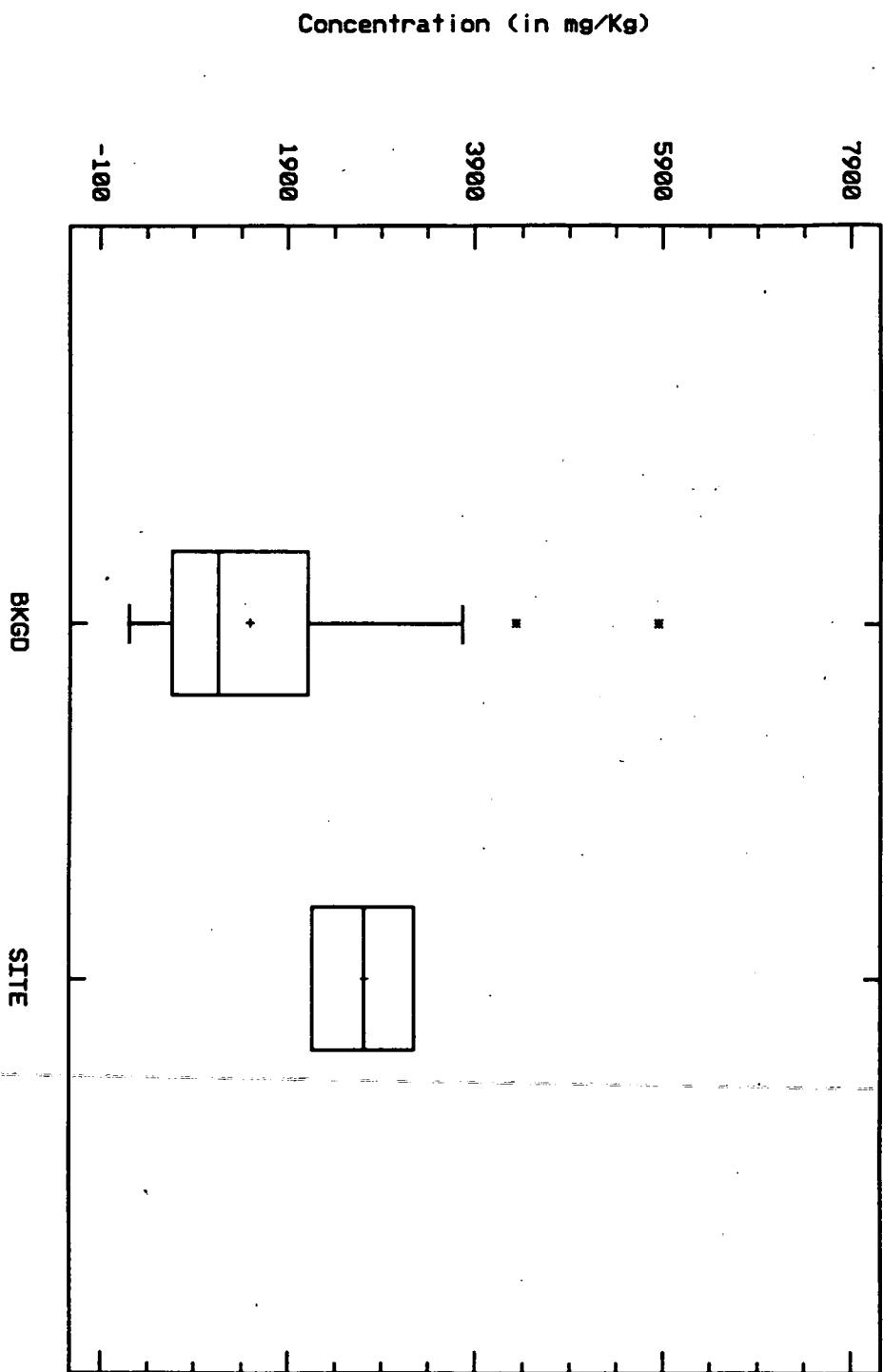
Lead (Total): Sediments
Background vs. OUT



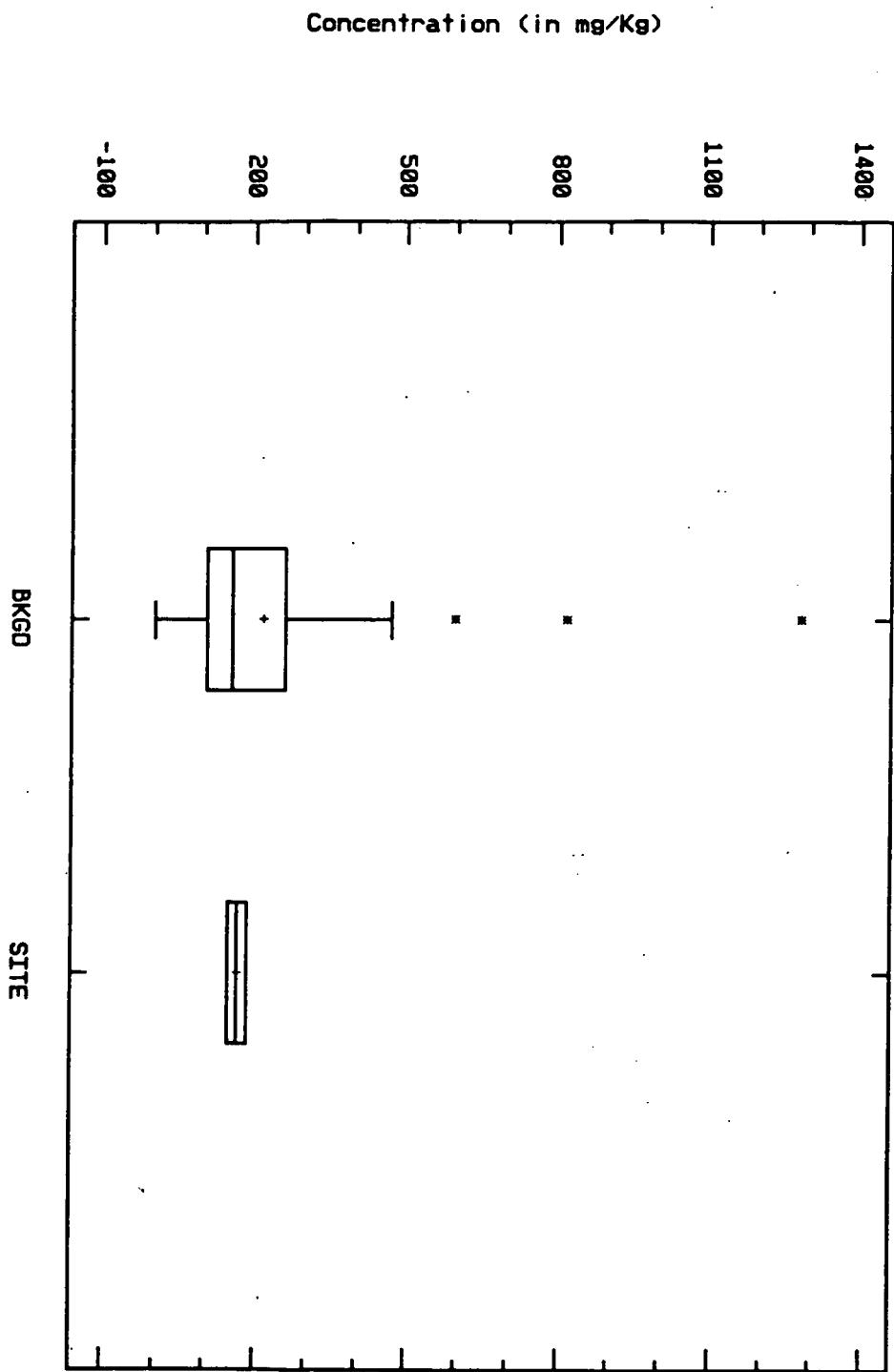
Lithium (Total): Sediments
Background vs. OUT



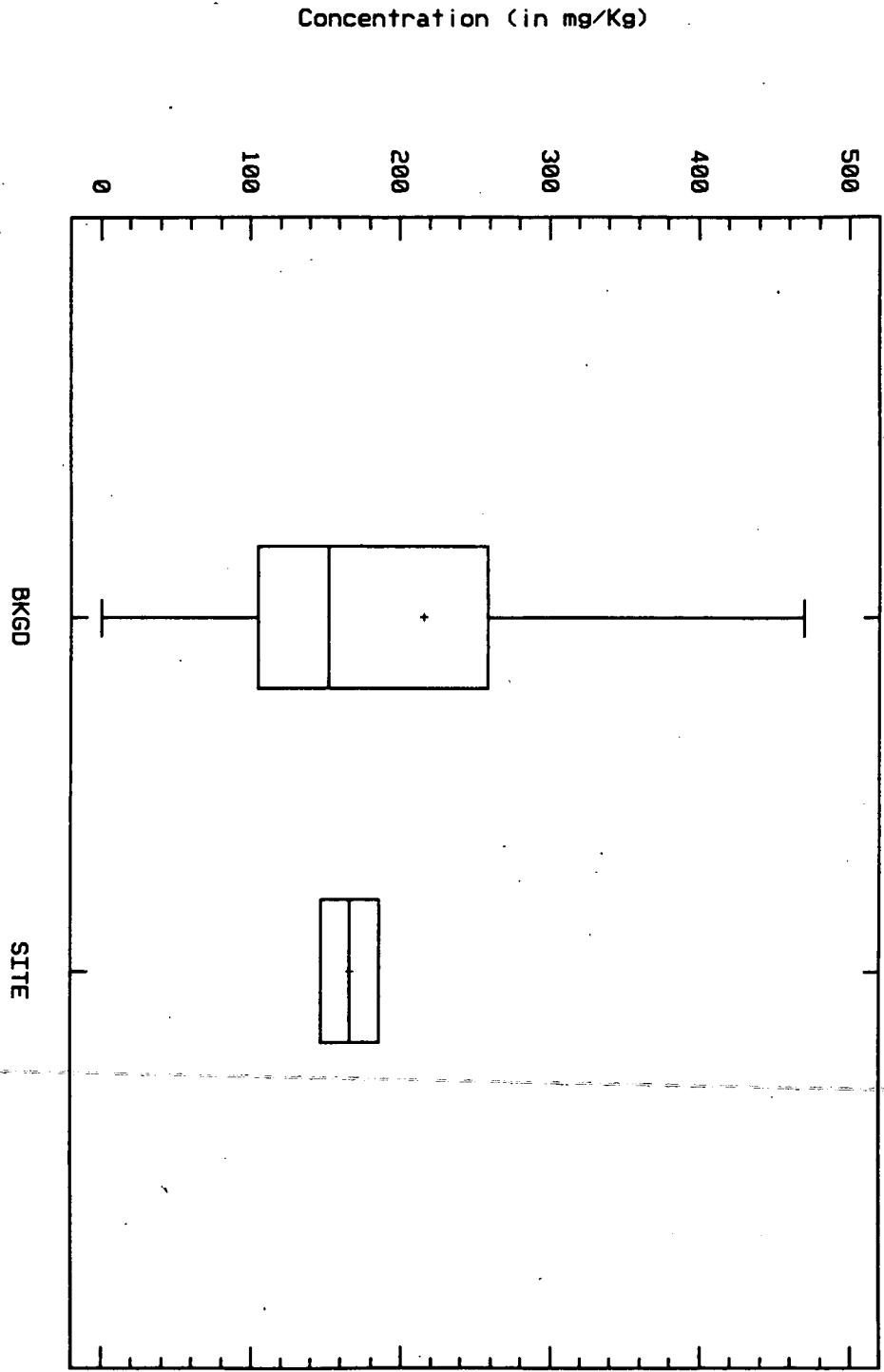
Magnesium (Total): Sediments
Background vs. 0U7



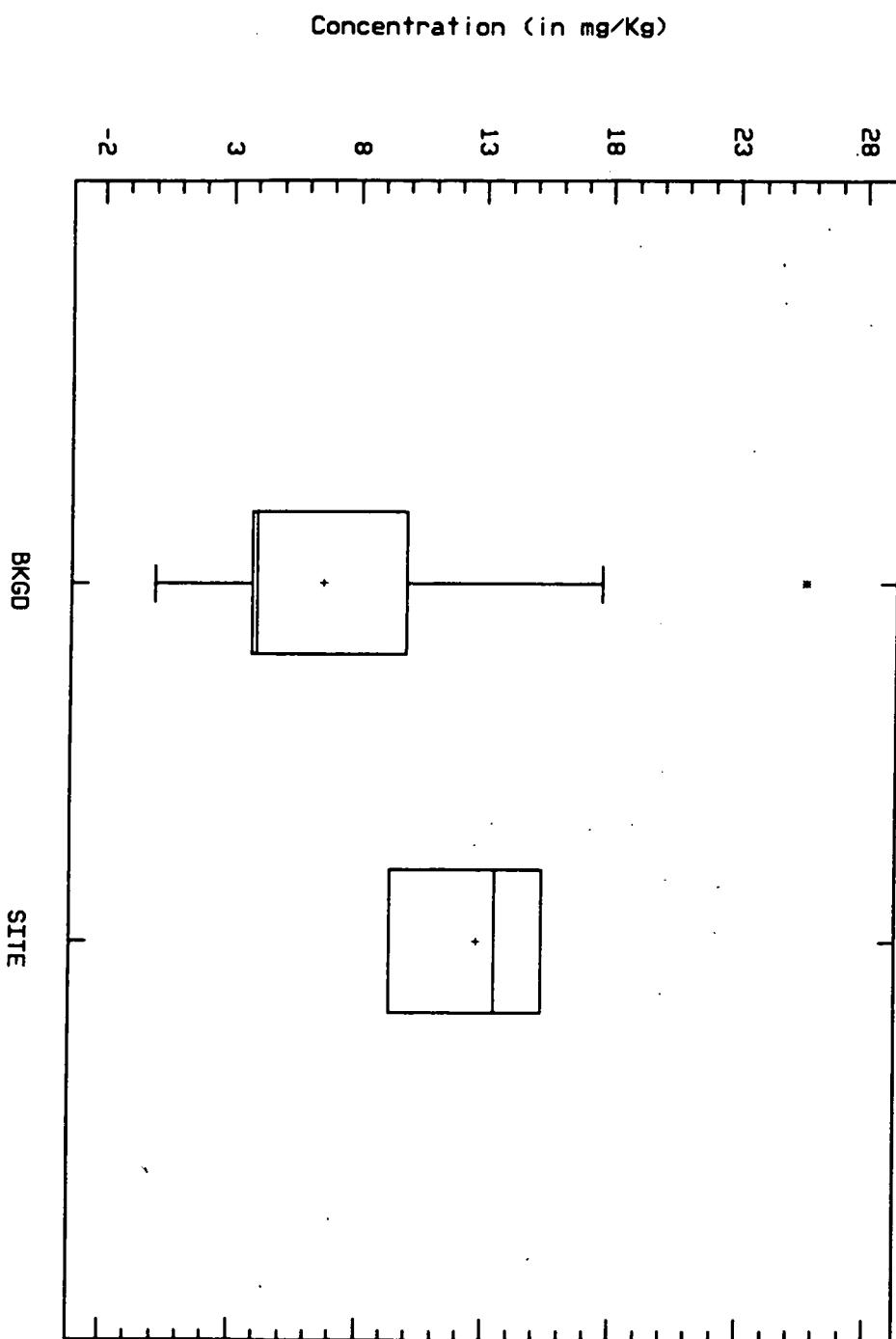
Manganese (Total): Sediments
Background vs. 0U7



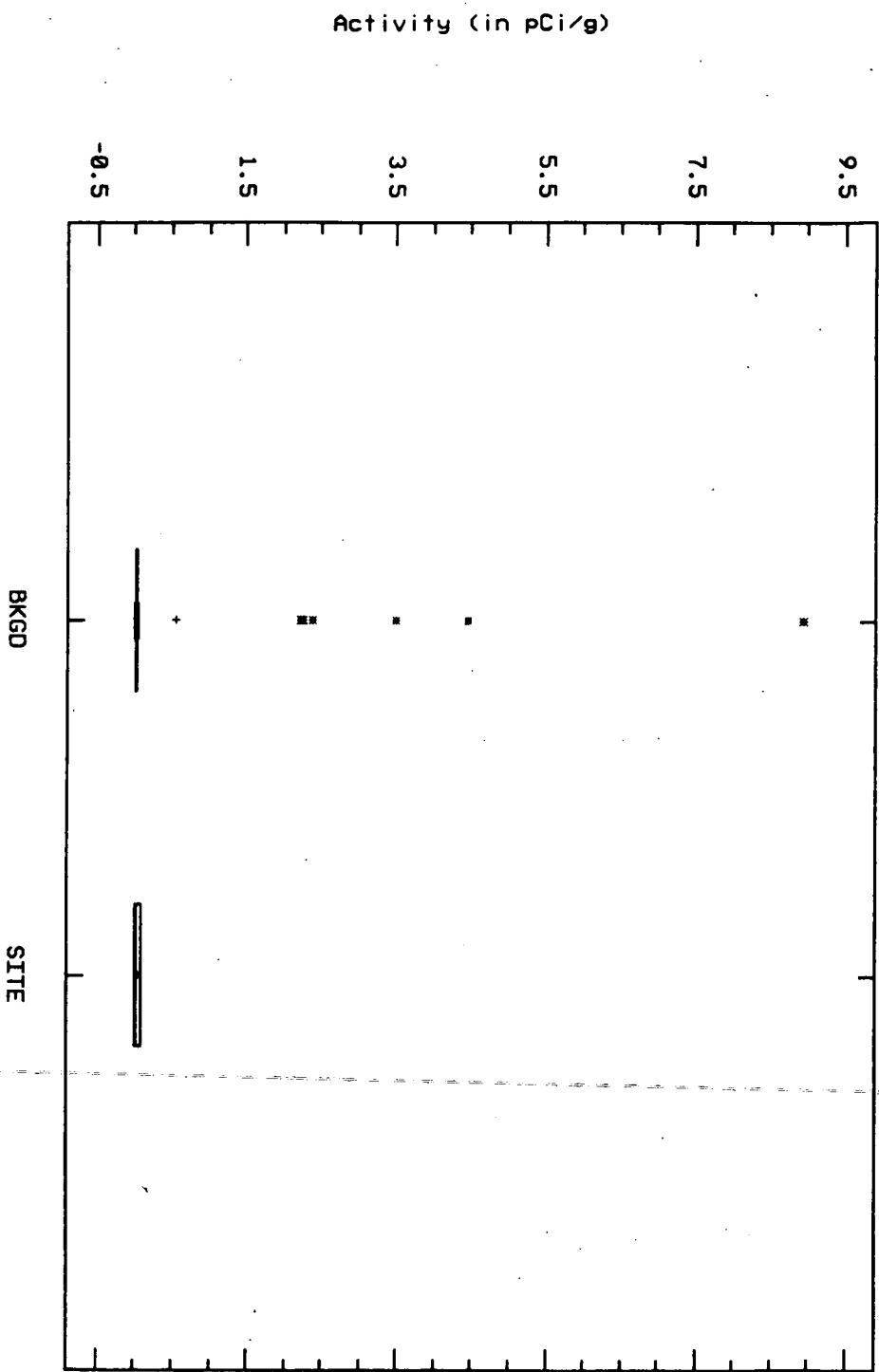
Manganese (Total): Sediments
Background vs. OUT



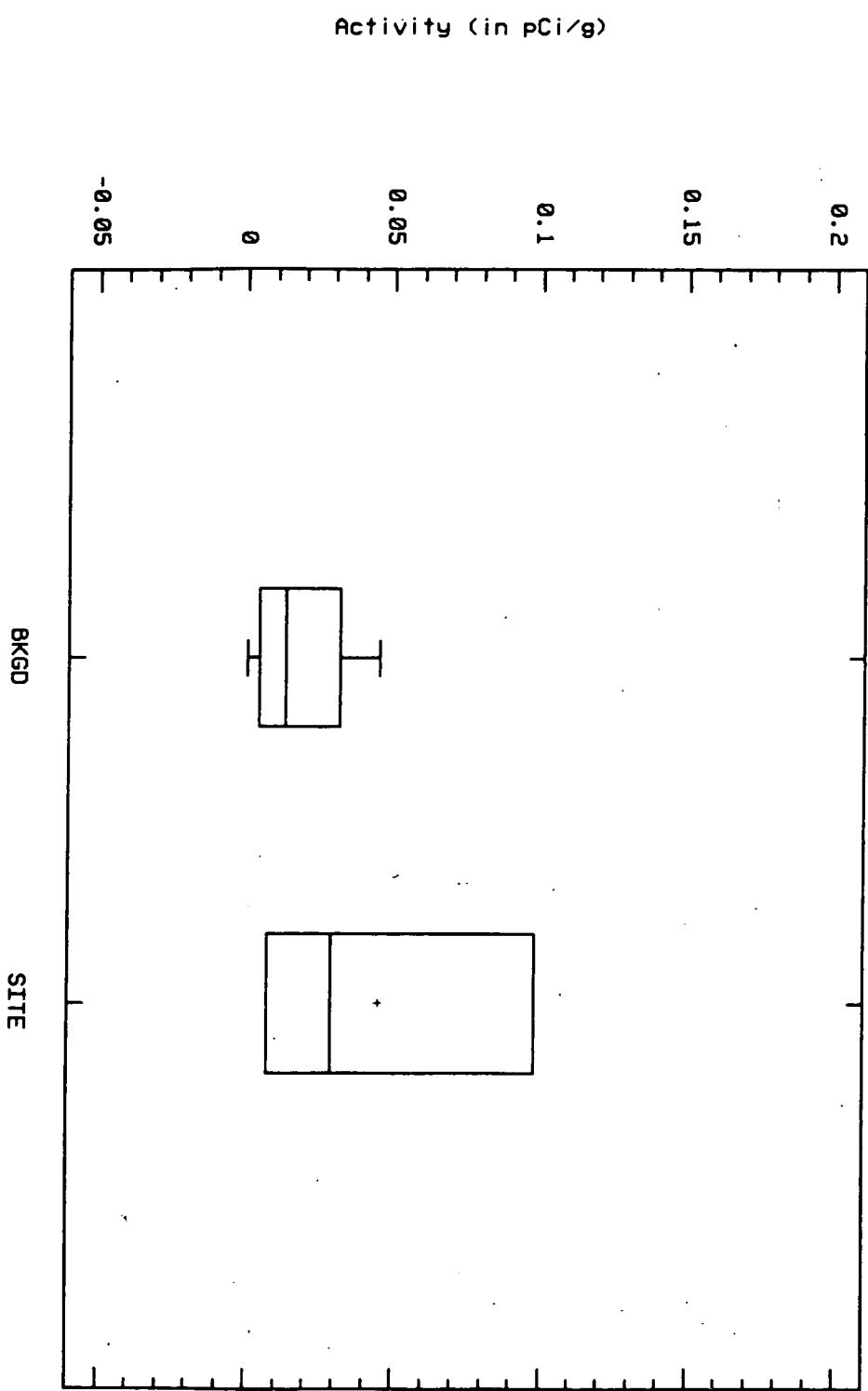
Nickel (Total): Sediments
Background vs. OU7



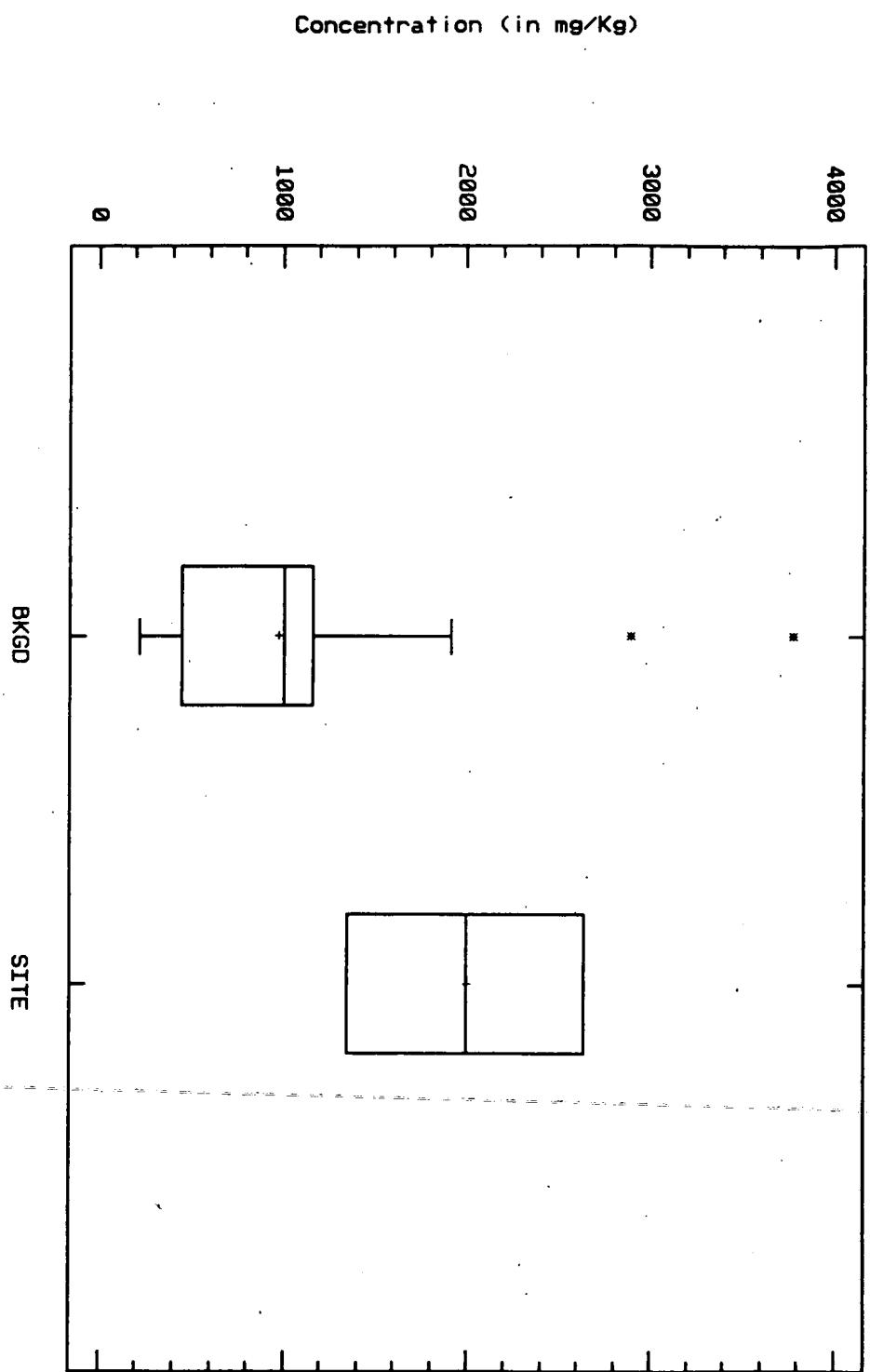
Plutonium-239/240 (Total): Sediments
Background vs. OUT



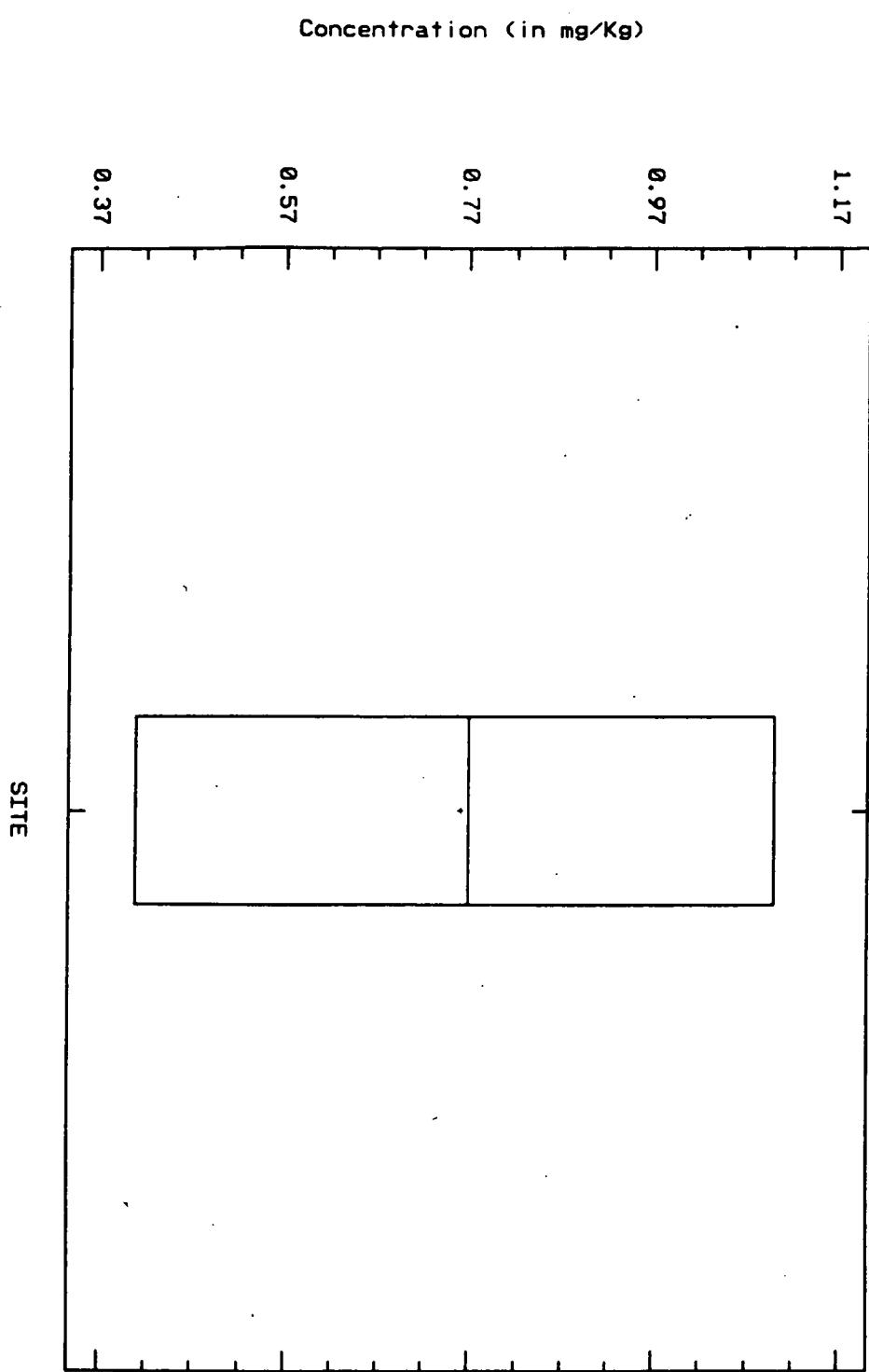
Plutonium-239/240 (Total): Sediments
Background vs. OUT



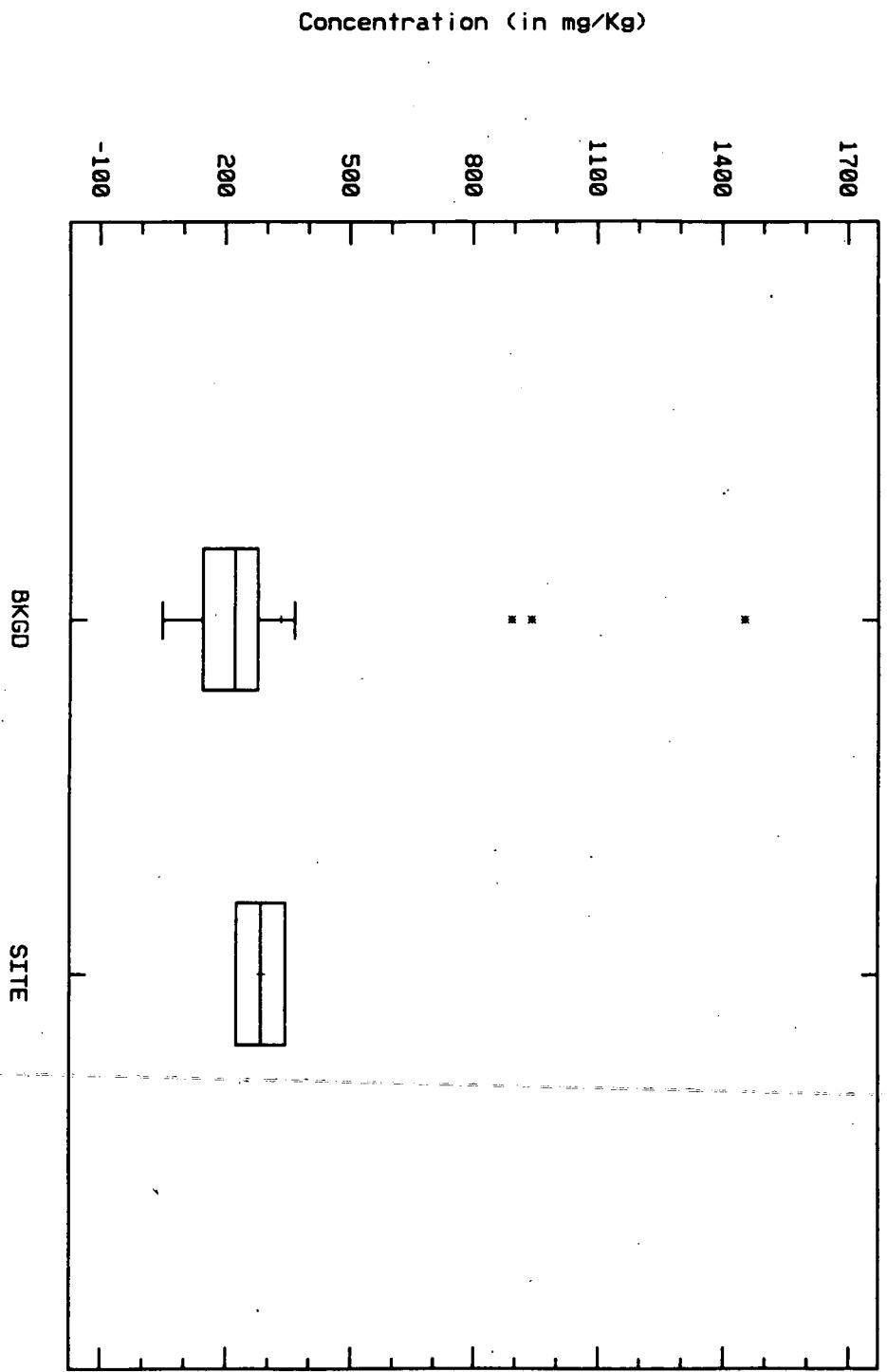
Potassium (Total): Sediments
Background vs. OUT



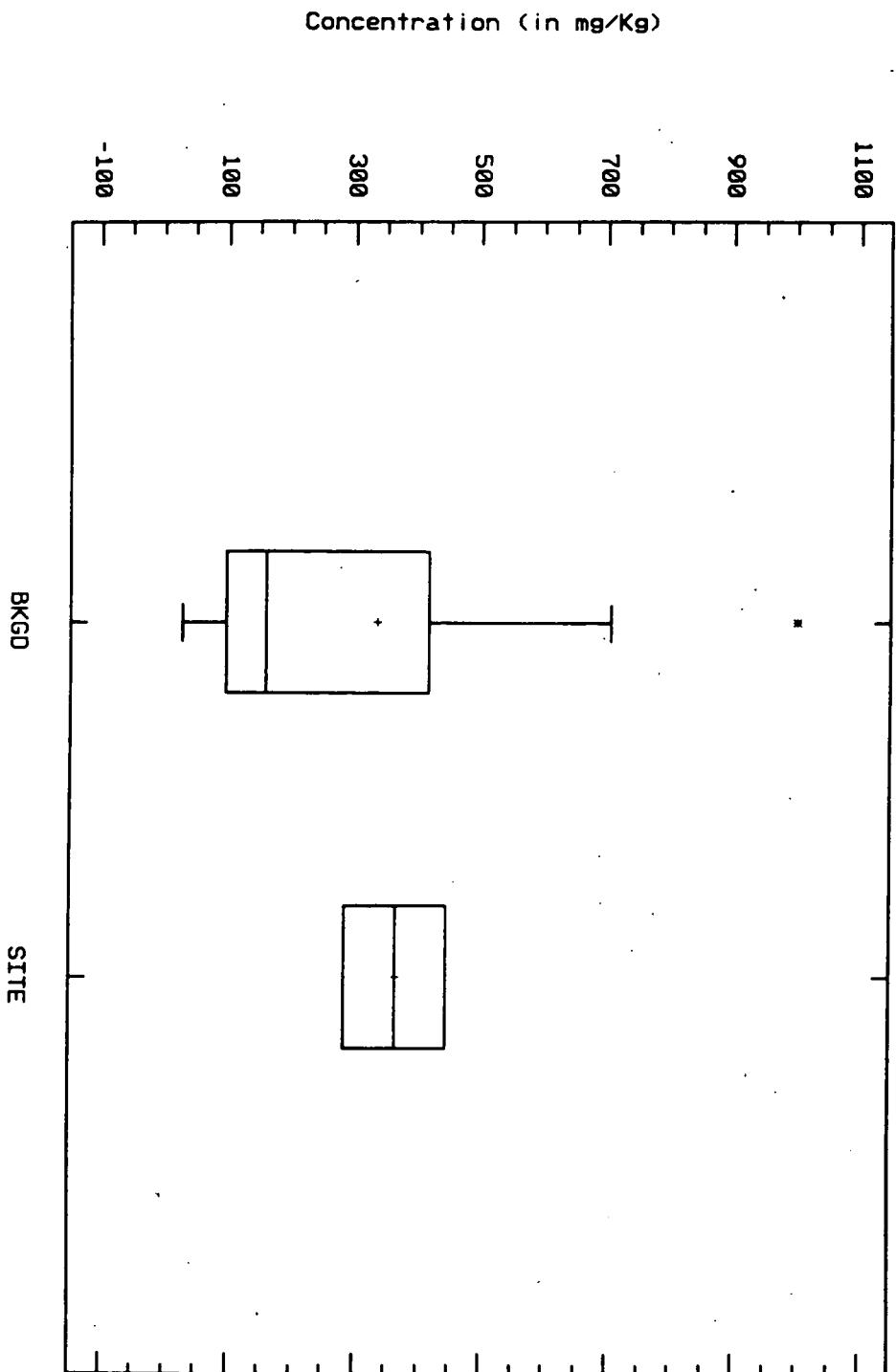
Selenium (Total): Sediments
Background vs. OUT



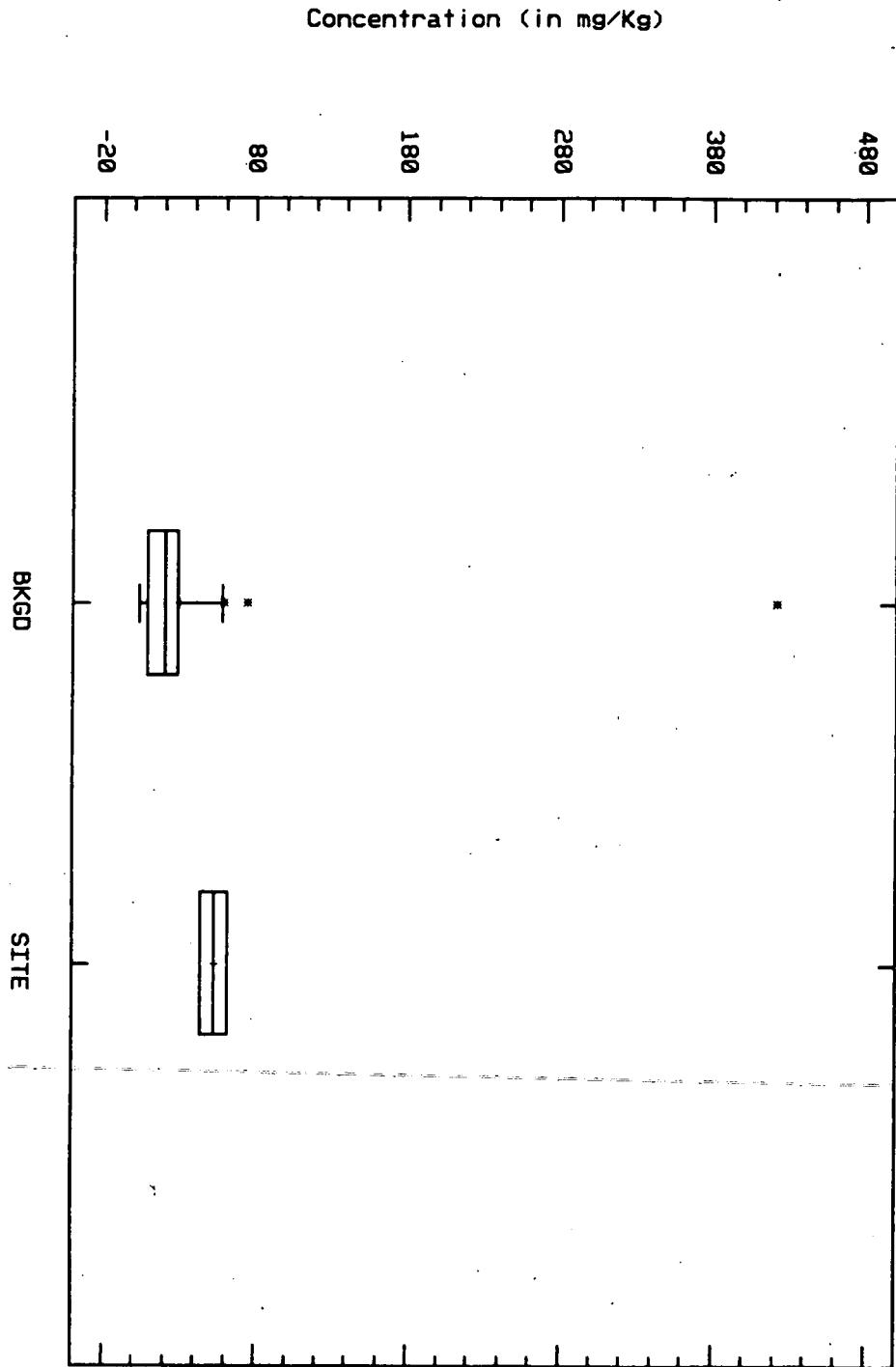
Silicon (Total): Sediments
Background vs. OUT



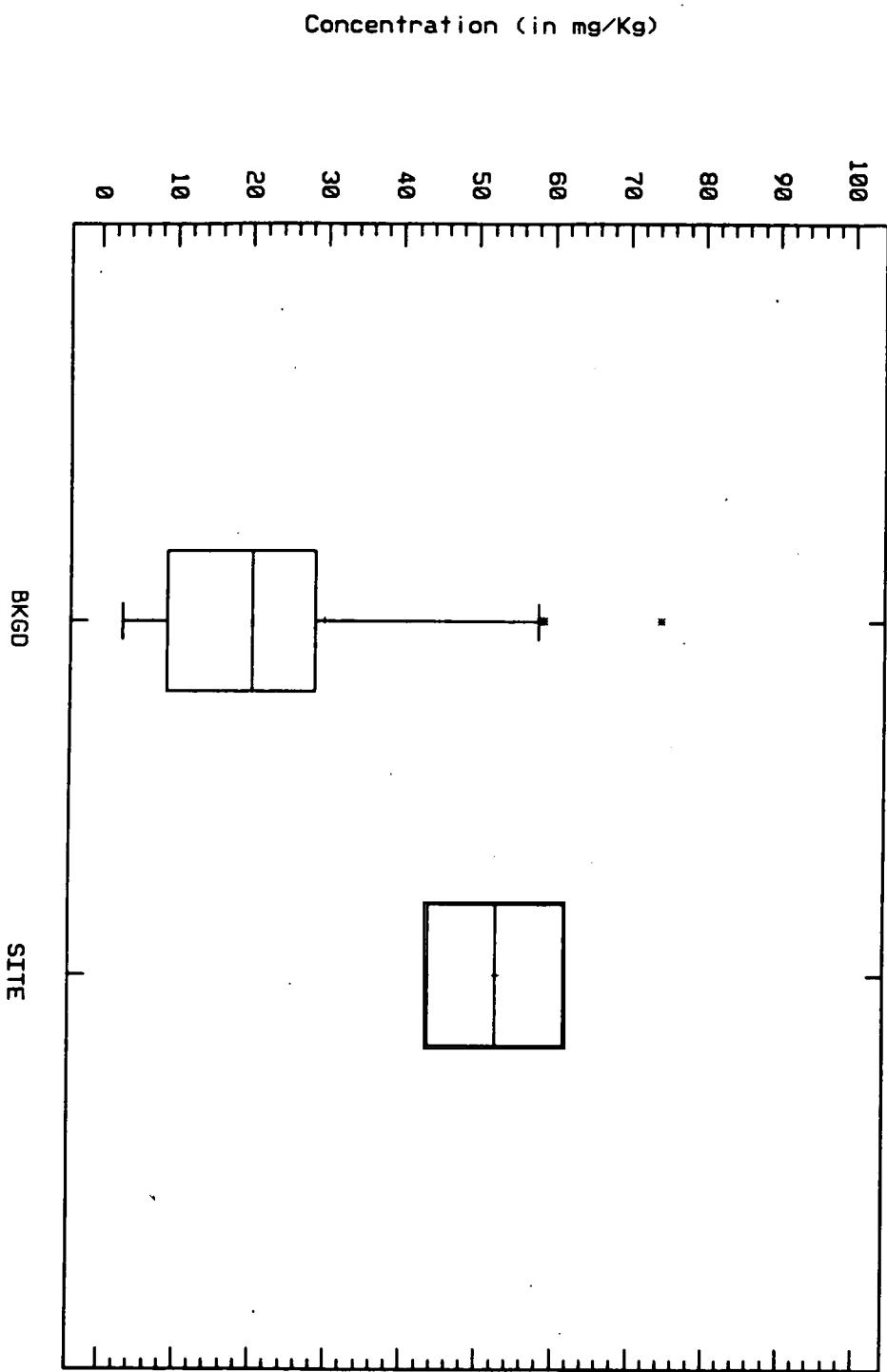
Sodium (Total): Sediments
Background vs. OJ7



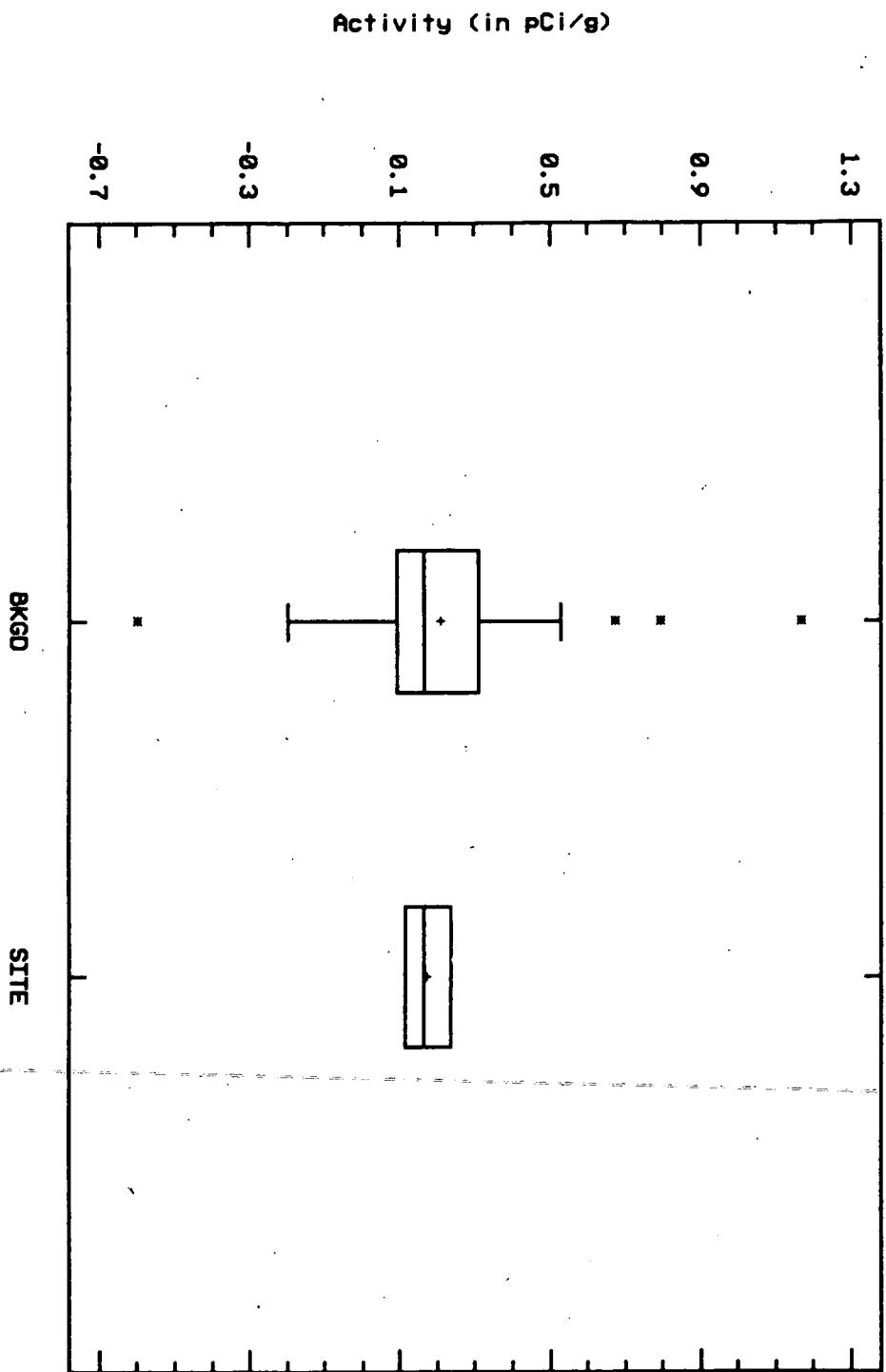
Strontium (Total): Sediments
Background vs. DUT



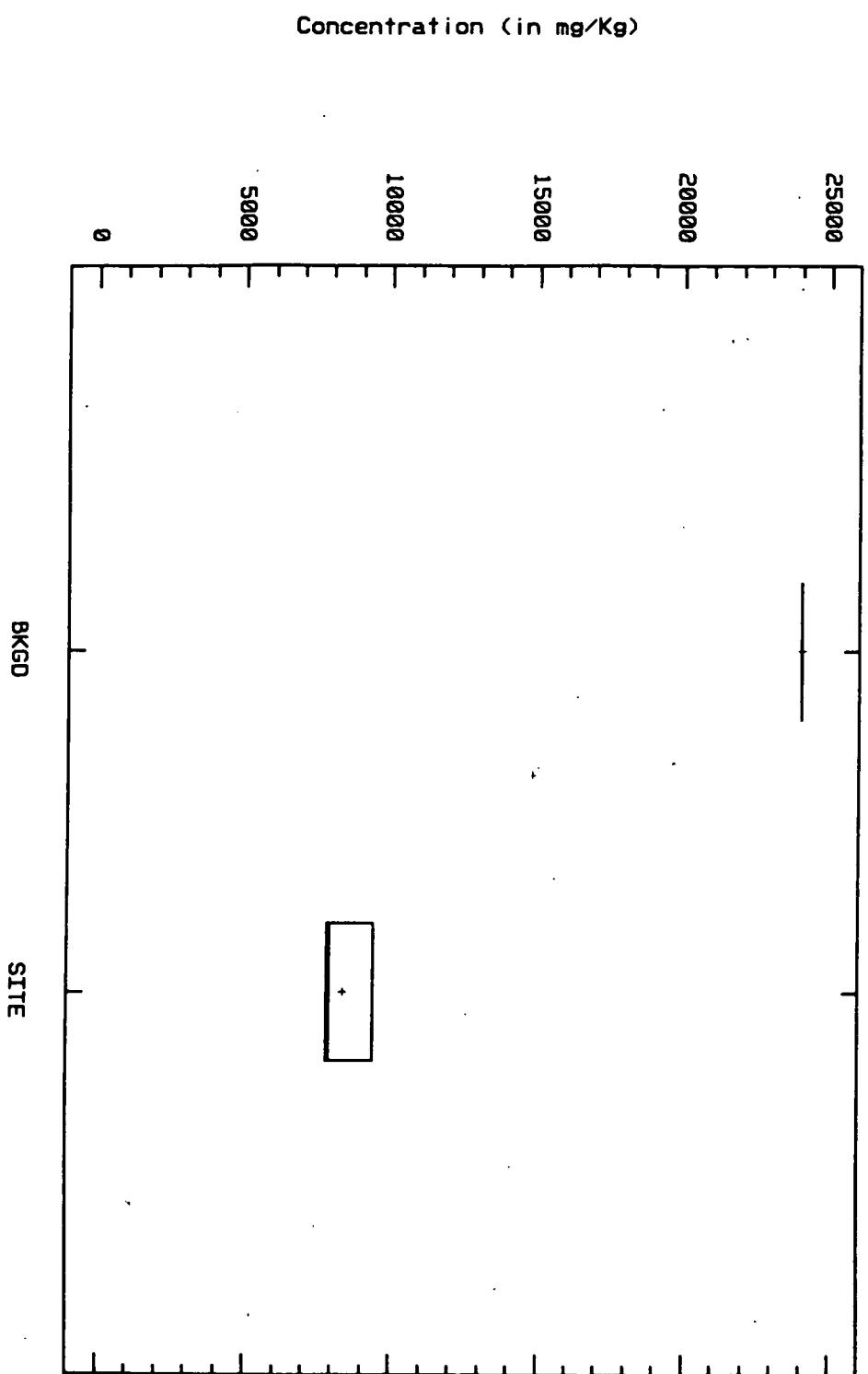
Strontium (Total): Sediments
Background vs. OUT



Strontium-89, 90 (Total): Sediments
Background vs. OUT

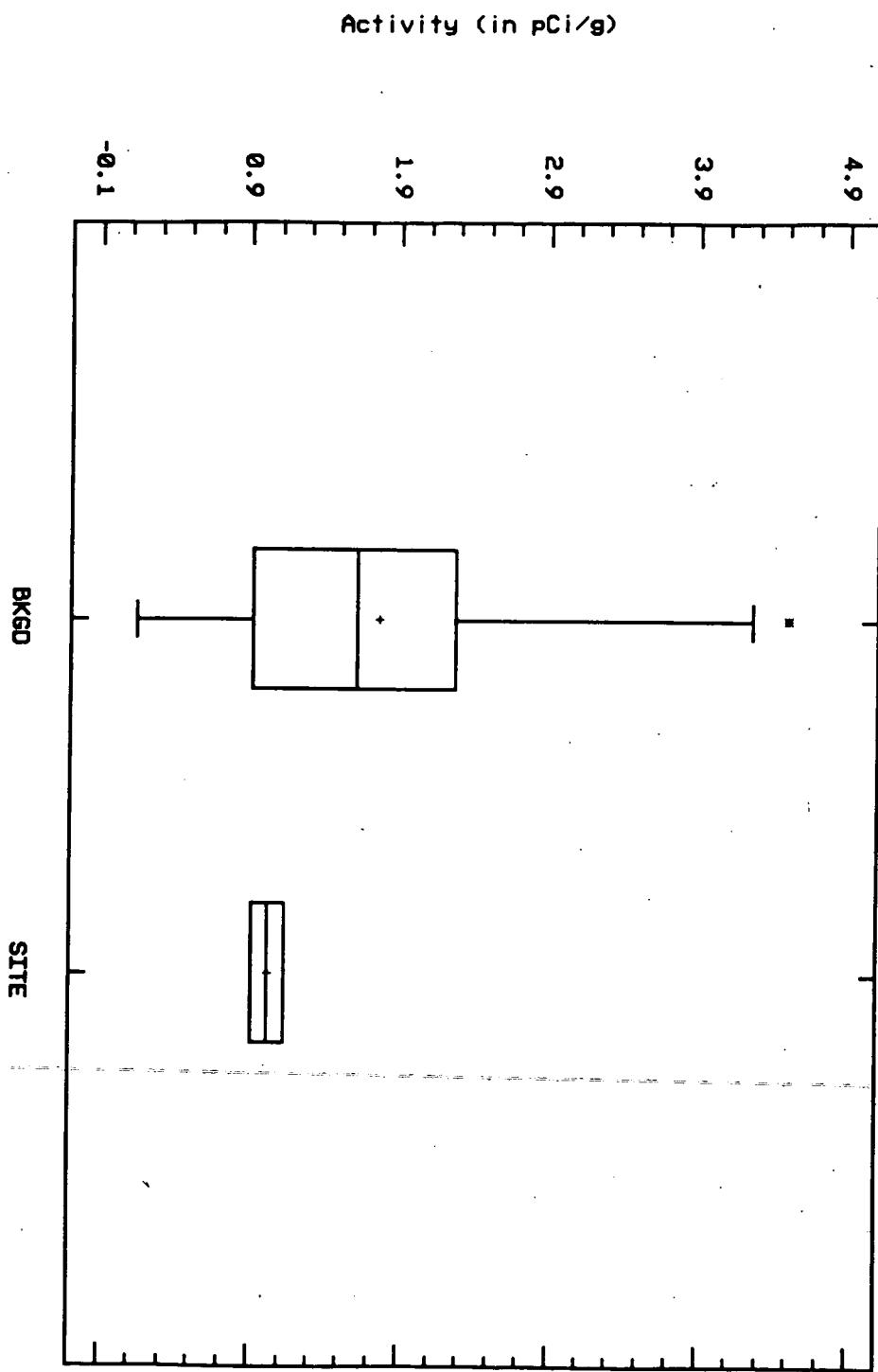


Total Organic Carbon (Total): Sediments
Background vs. OUT

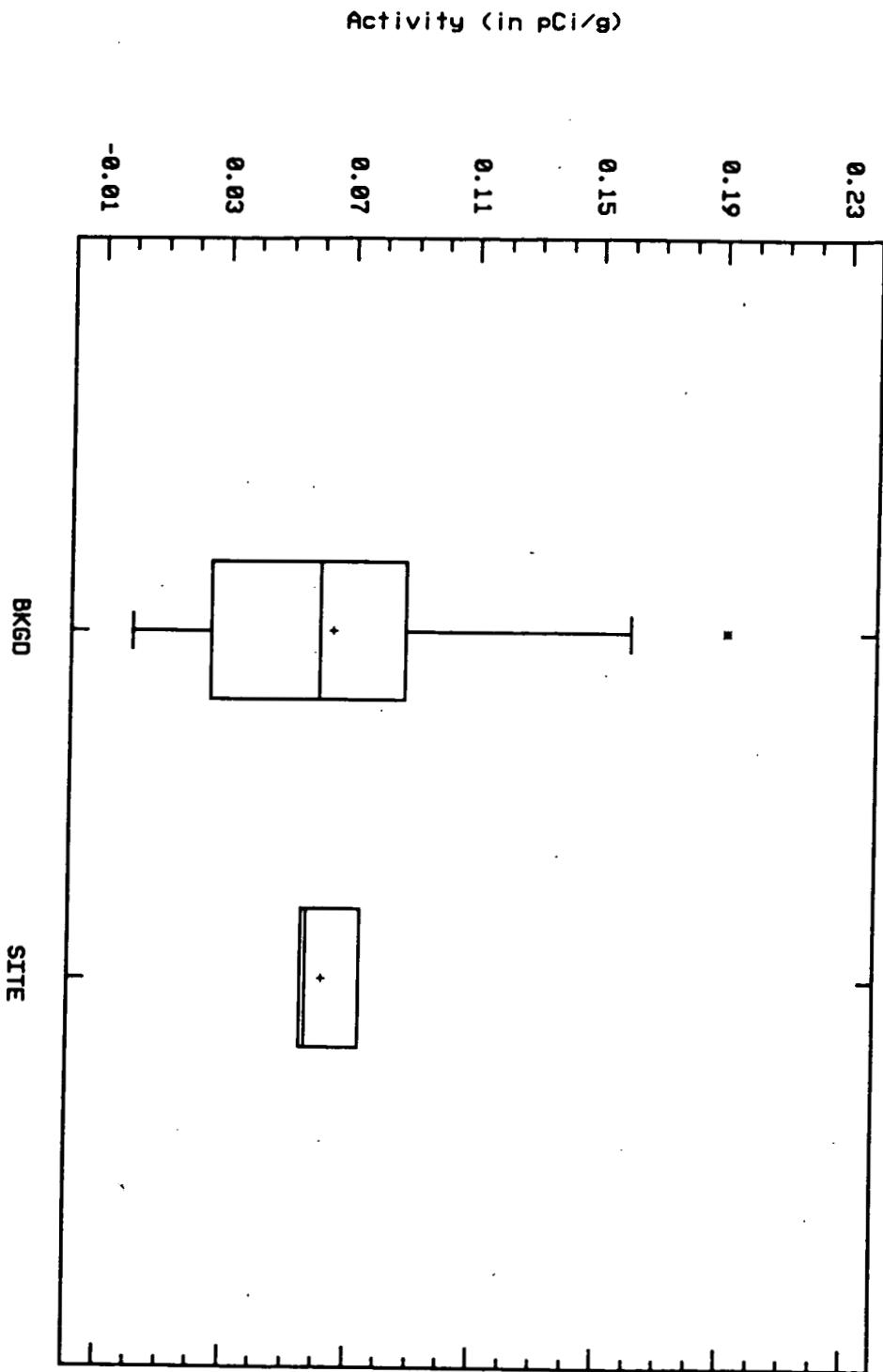


Uranium-233, 234: Sediments

Background vs. OUT

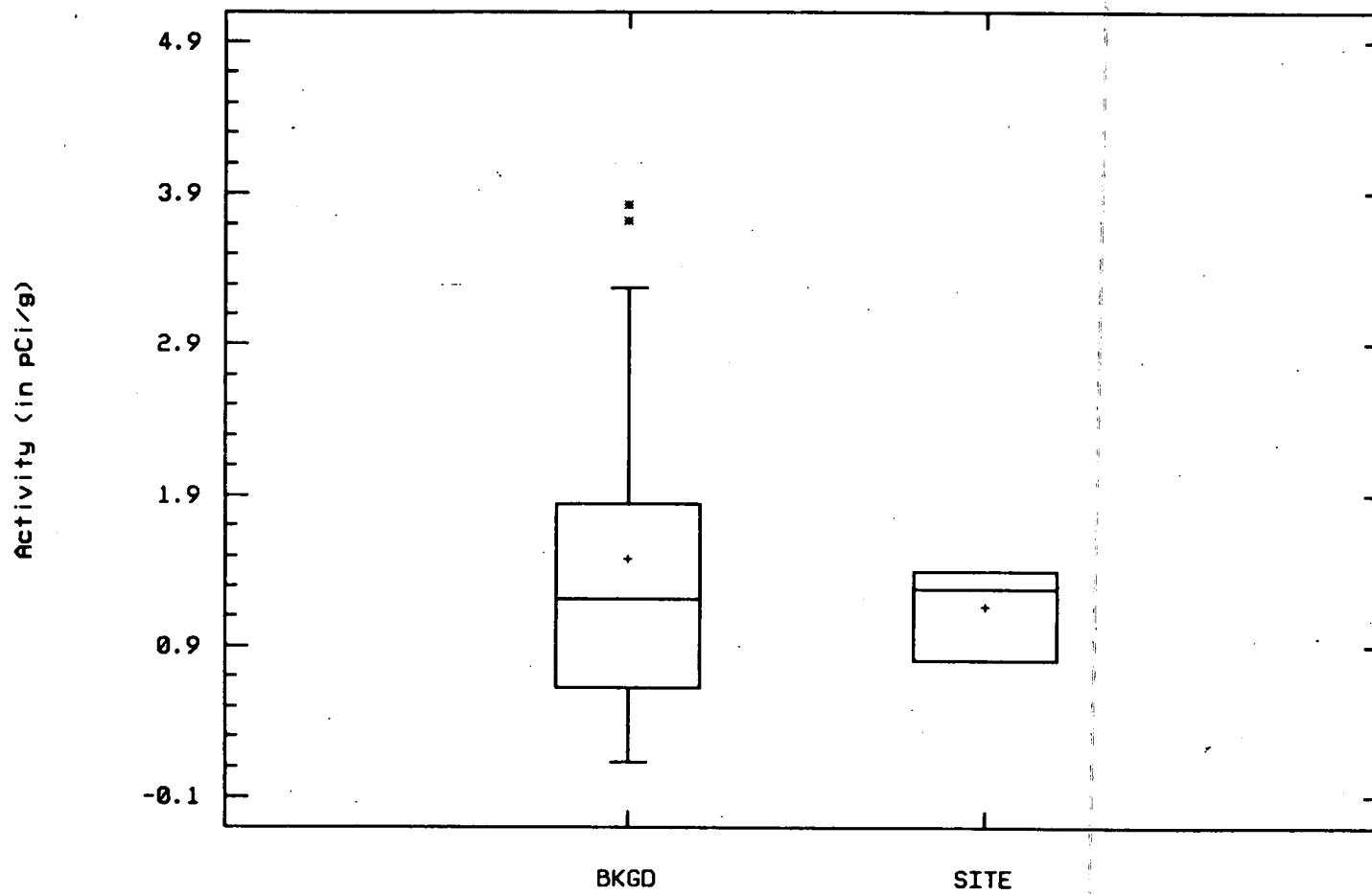


Uranium-235: Sediments
Background vs. OUT



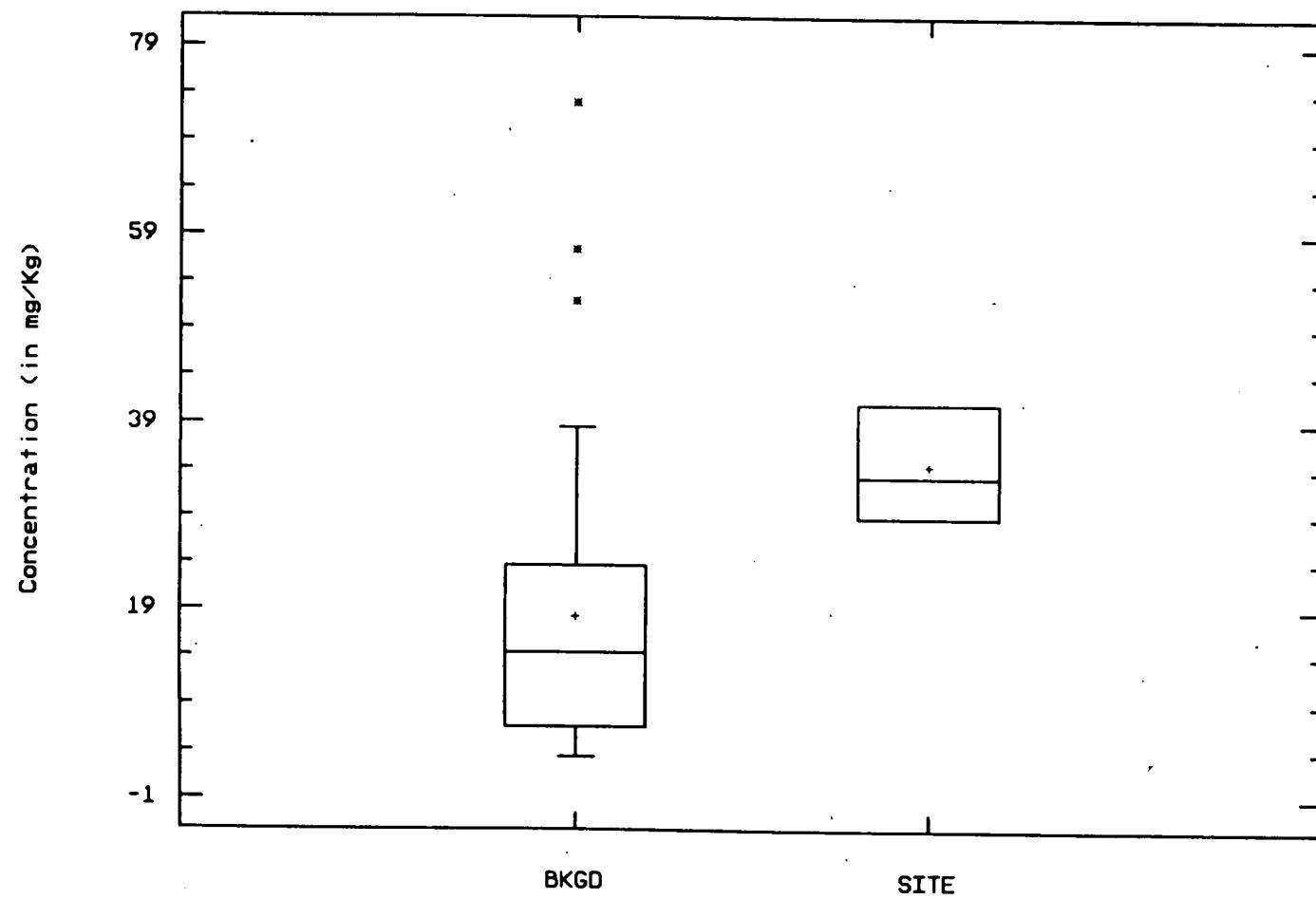
Uranium-238: Sediments

Background vs. OU7

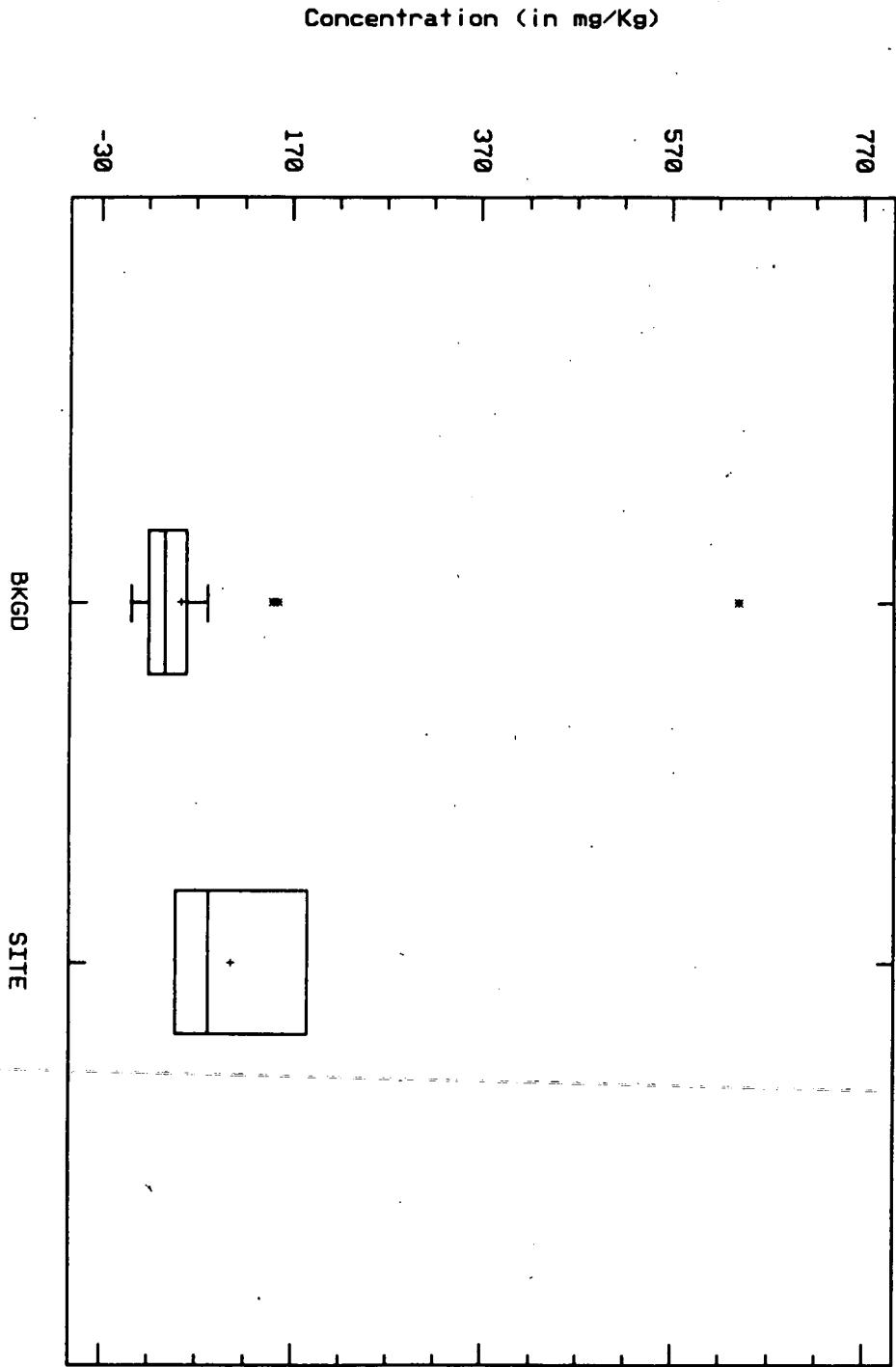


Vanadium: Sediments

Background vs. OU7



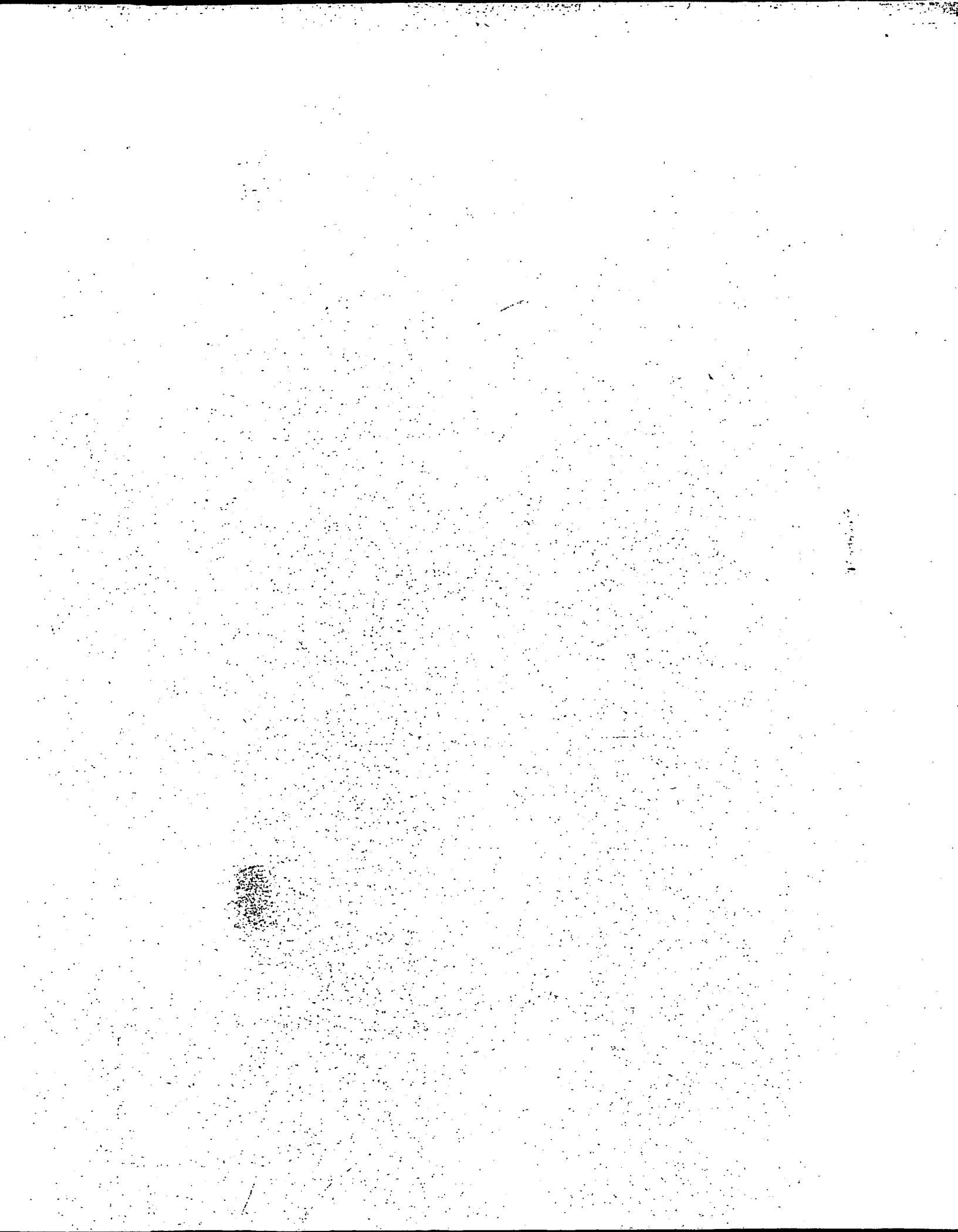
Zinc: Sediments
Background vs. OUT



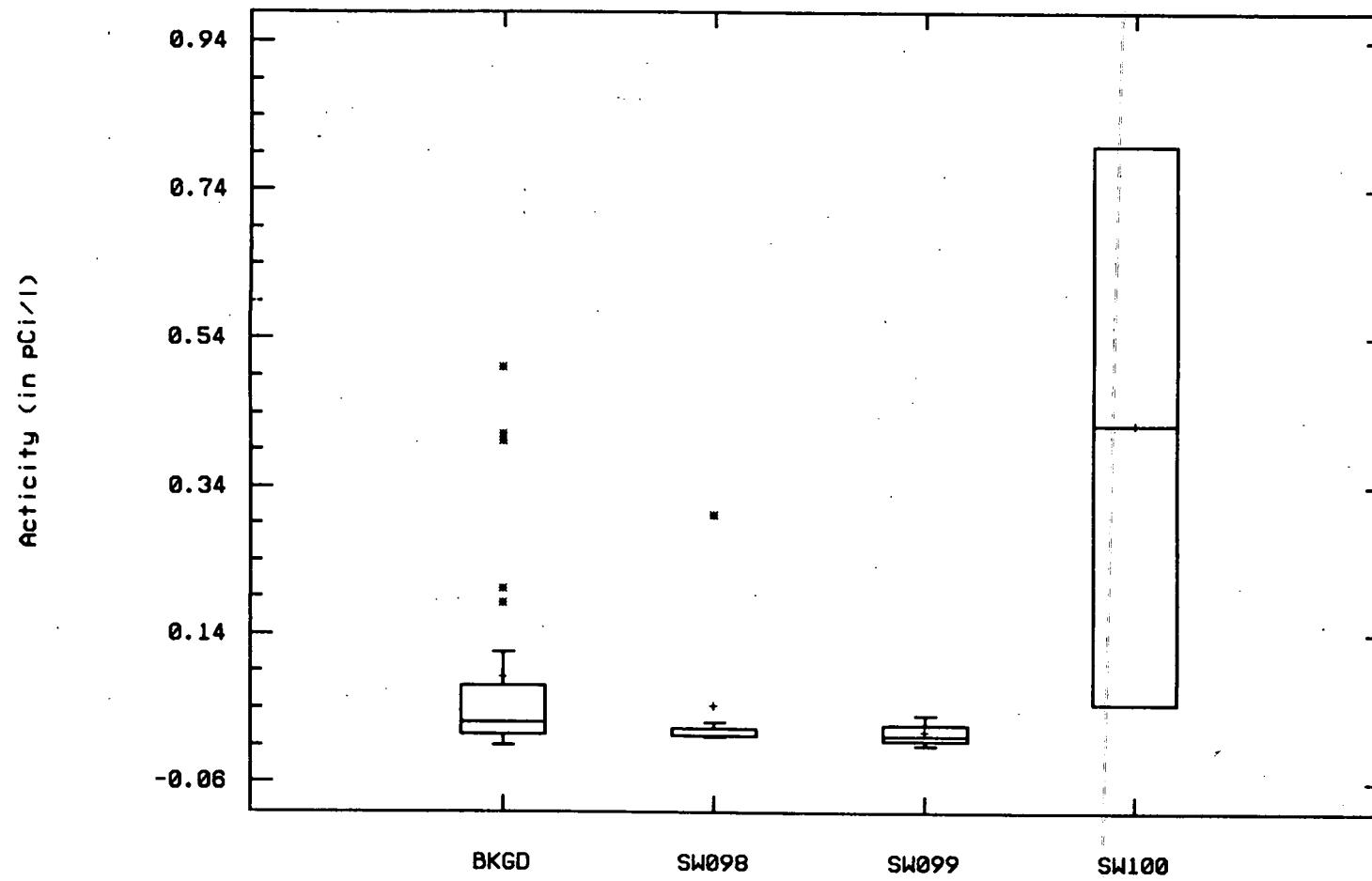
Surface Water

(Dissolved)

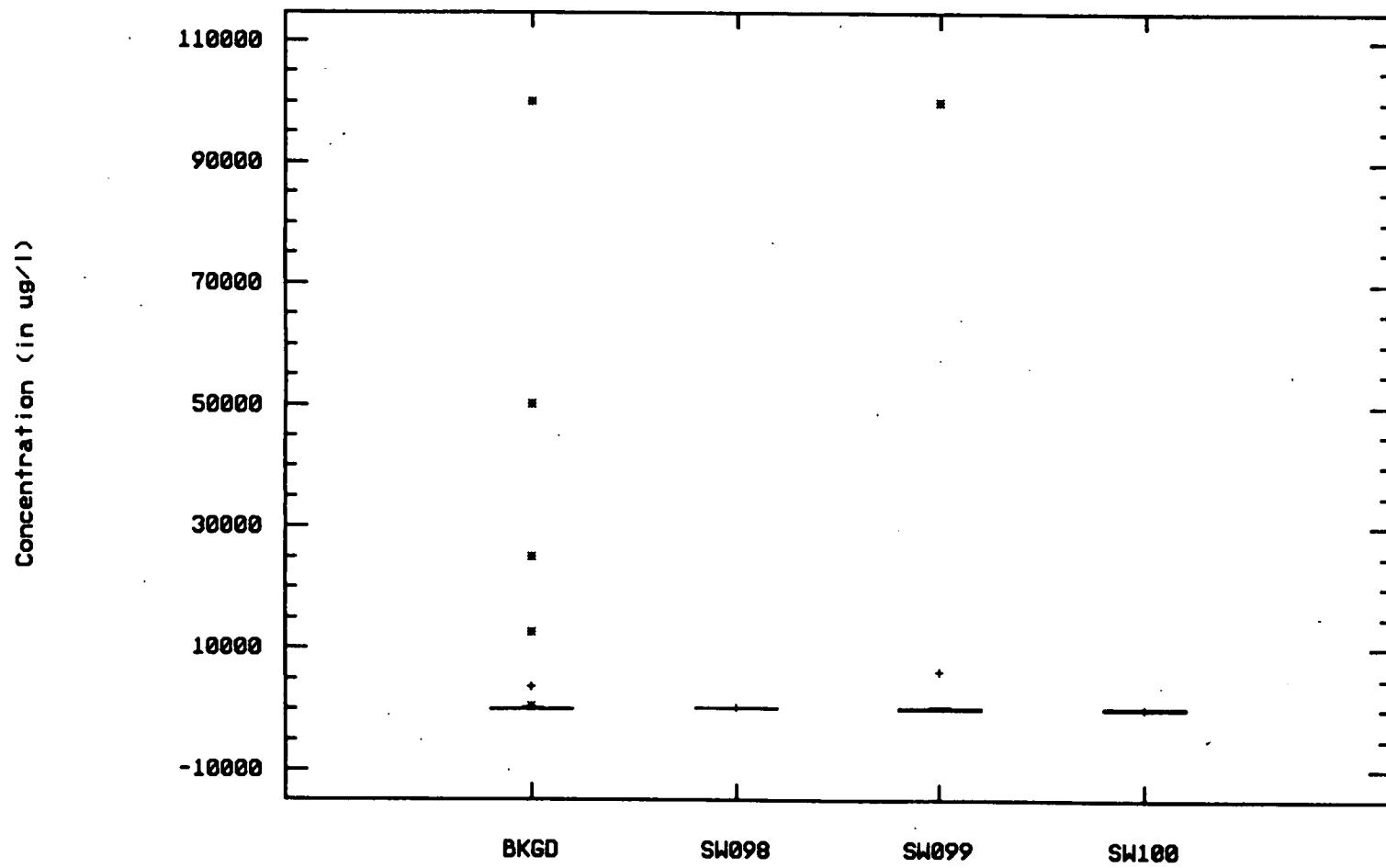
Background vs. OU 7



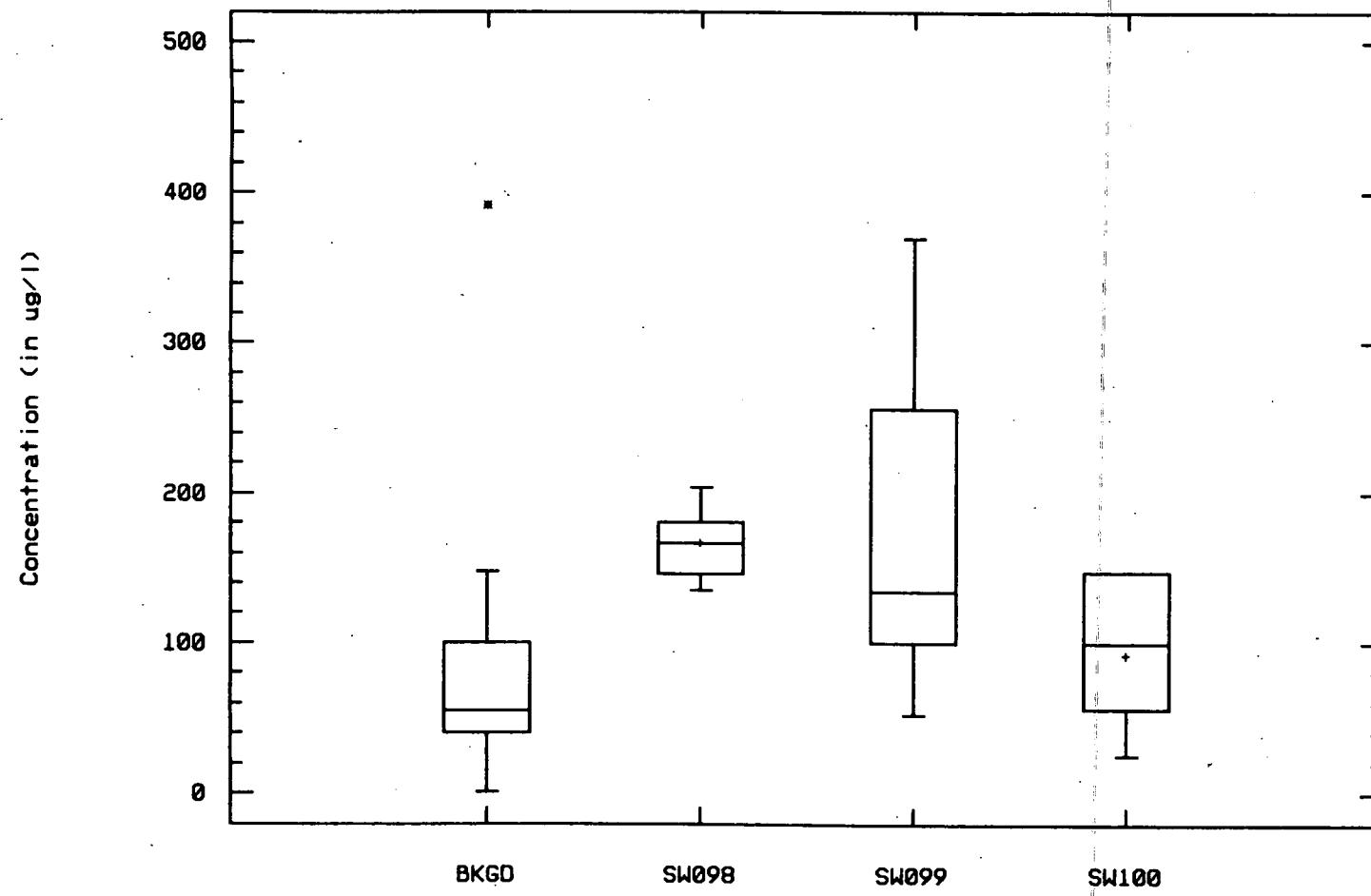
Americium-241 (Dissolved): Surface Water
Background vs. 0U7 SW Stations



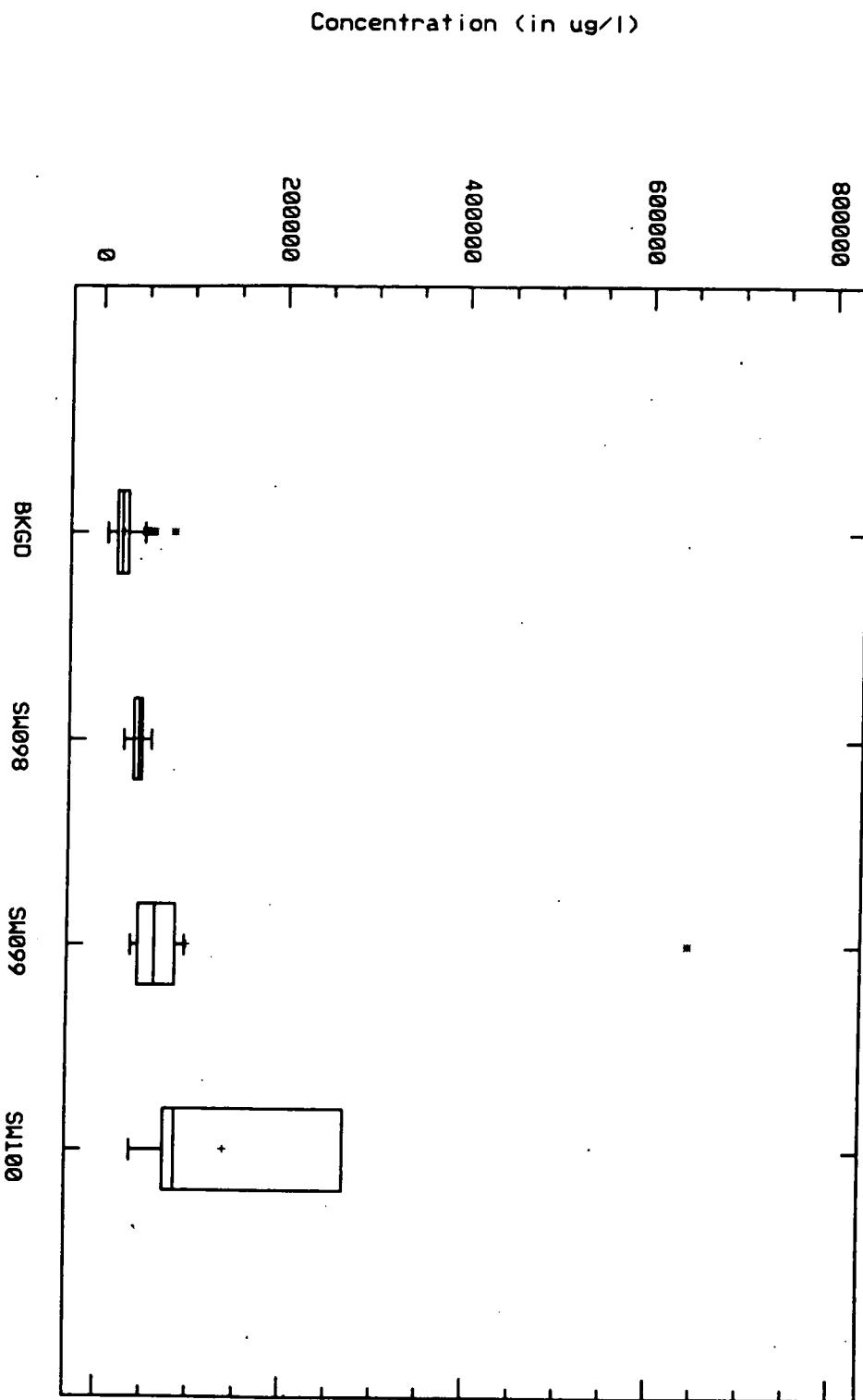
Barium (Dissolved): Surface Water
Background vs. OU7 SW Stations



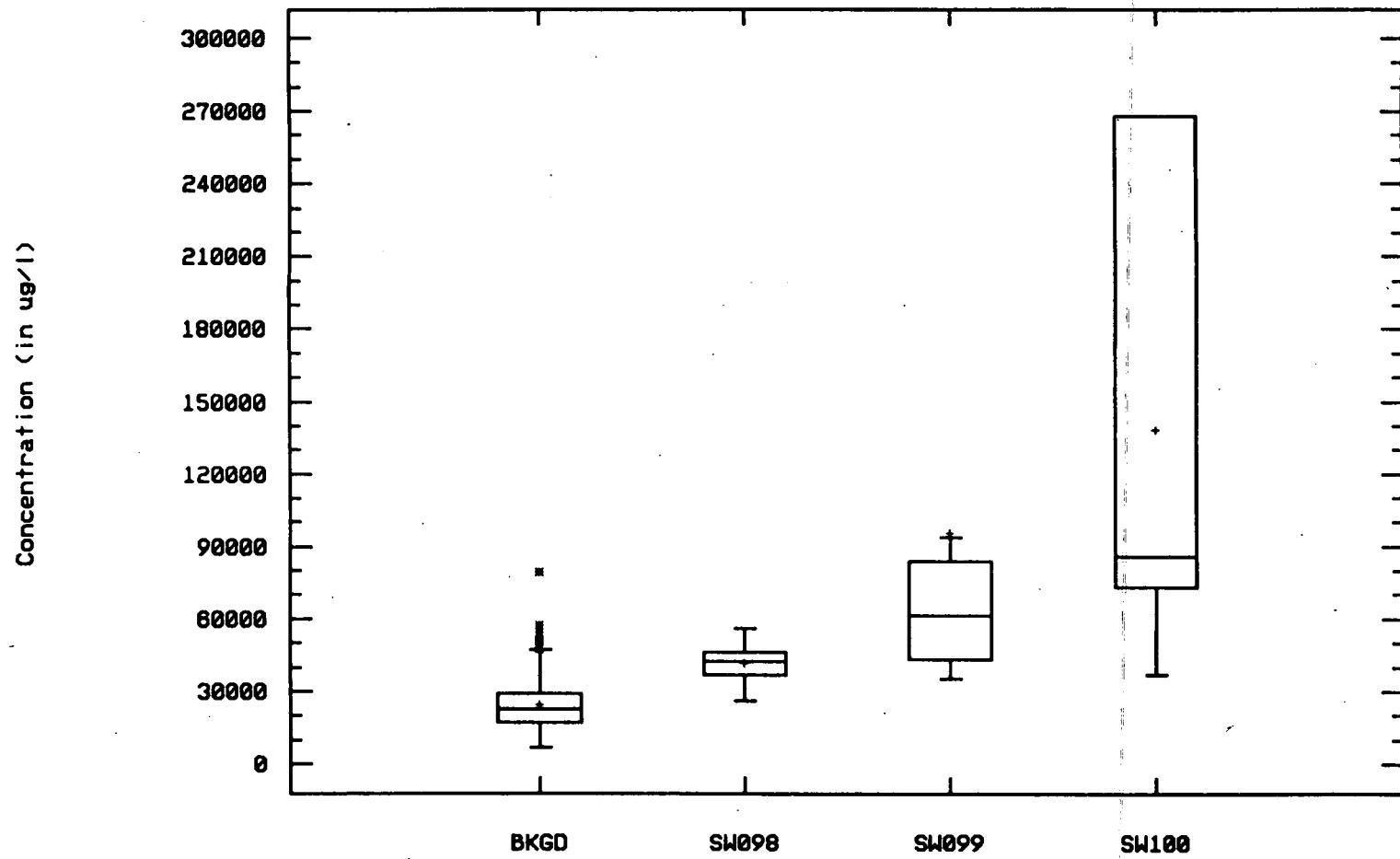
Barium (Dissolved): Surface Water
Background vs. OU7 SW Stations



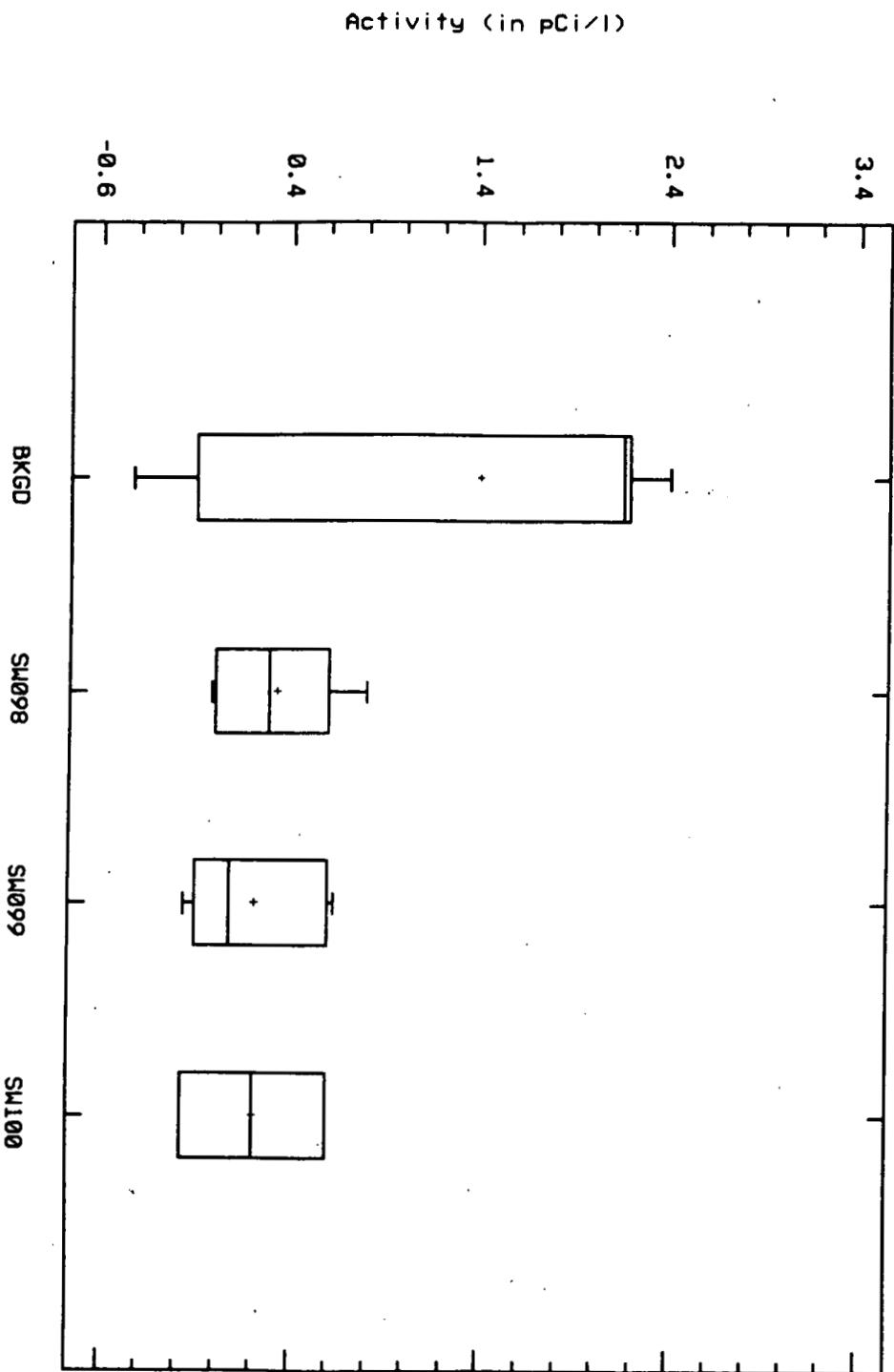
Calcium (Dissolved): Surface Water
Background vs. OUT SW Stations



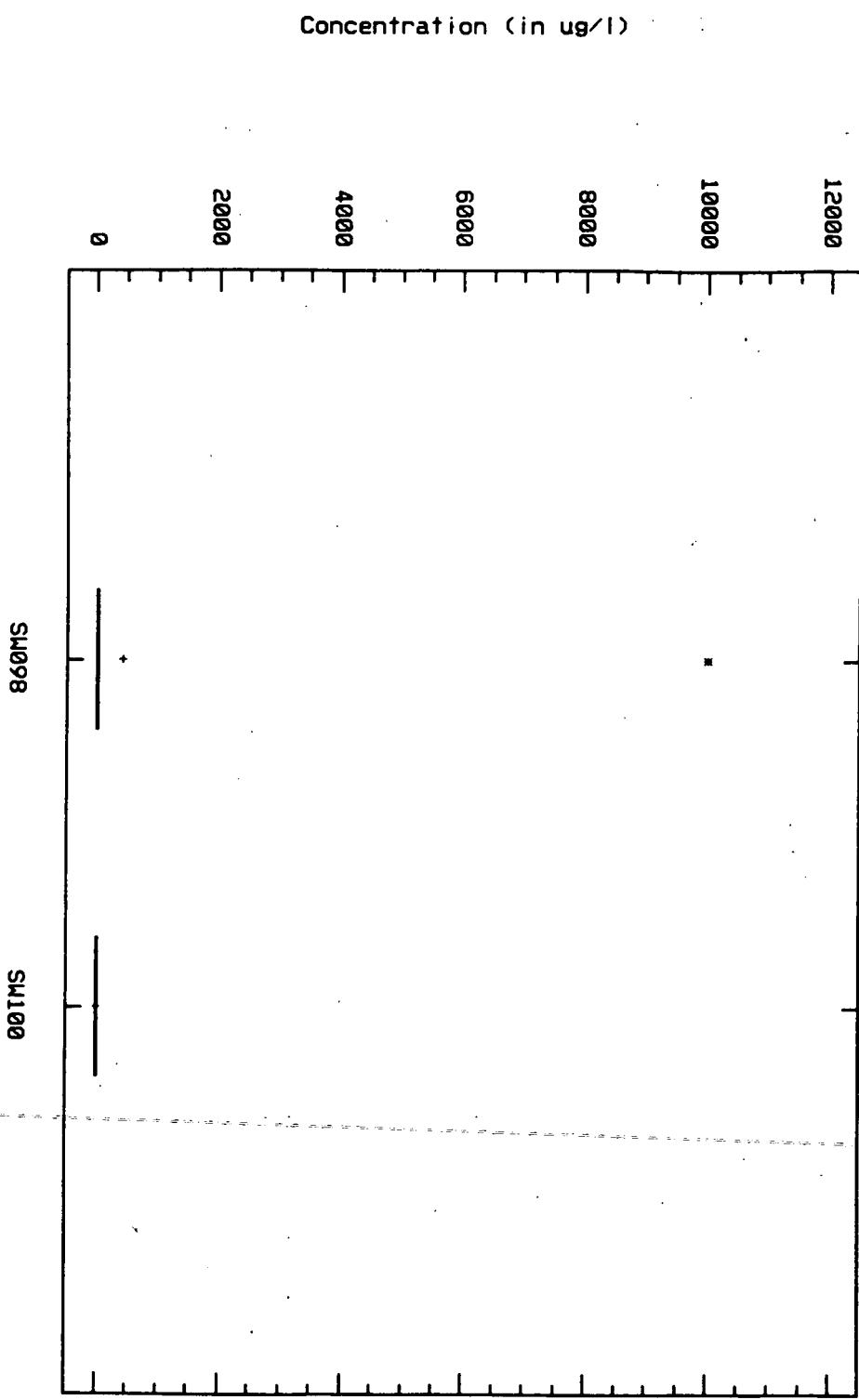
Calcium (Dissolved): Surface Water
Background vs. OU7 SW Stations



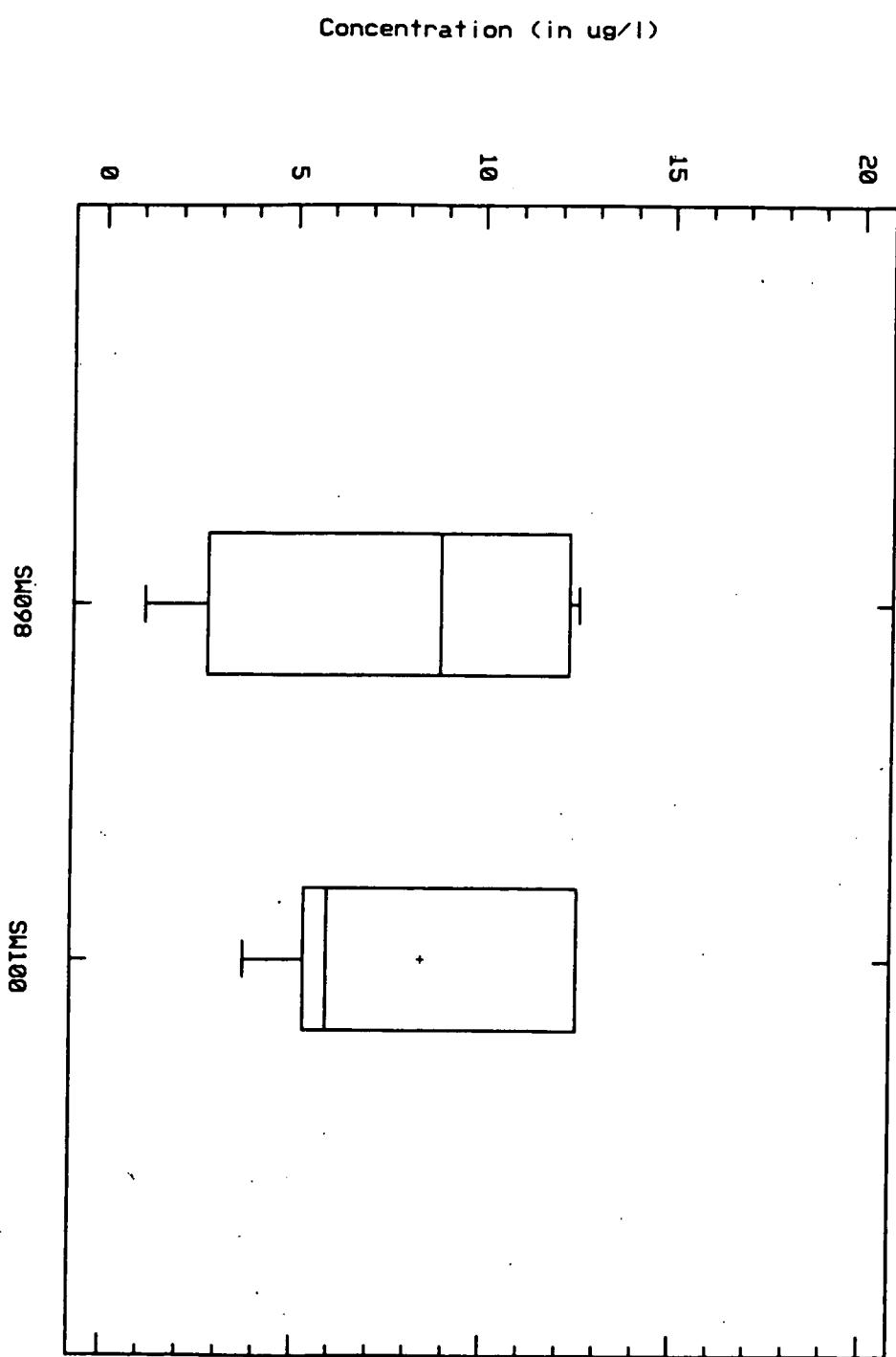
Cesium-137 (Dissolved): Surface Water
Background vs. OUT SW Stations



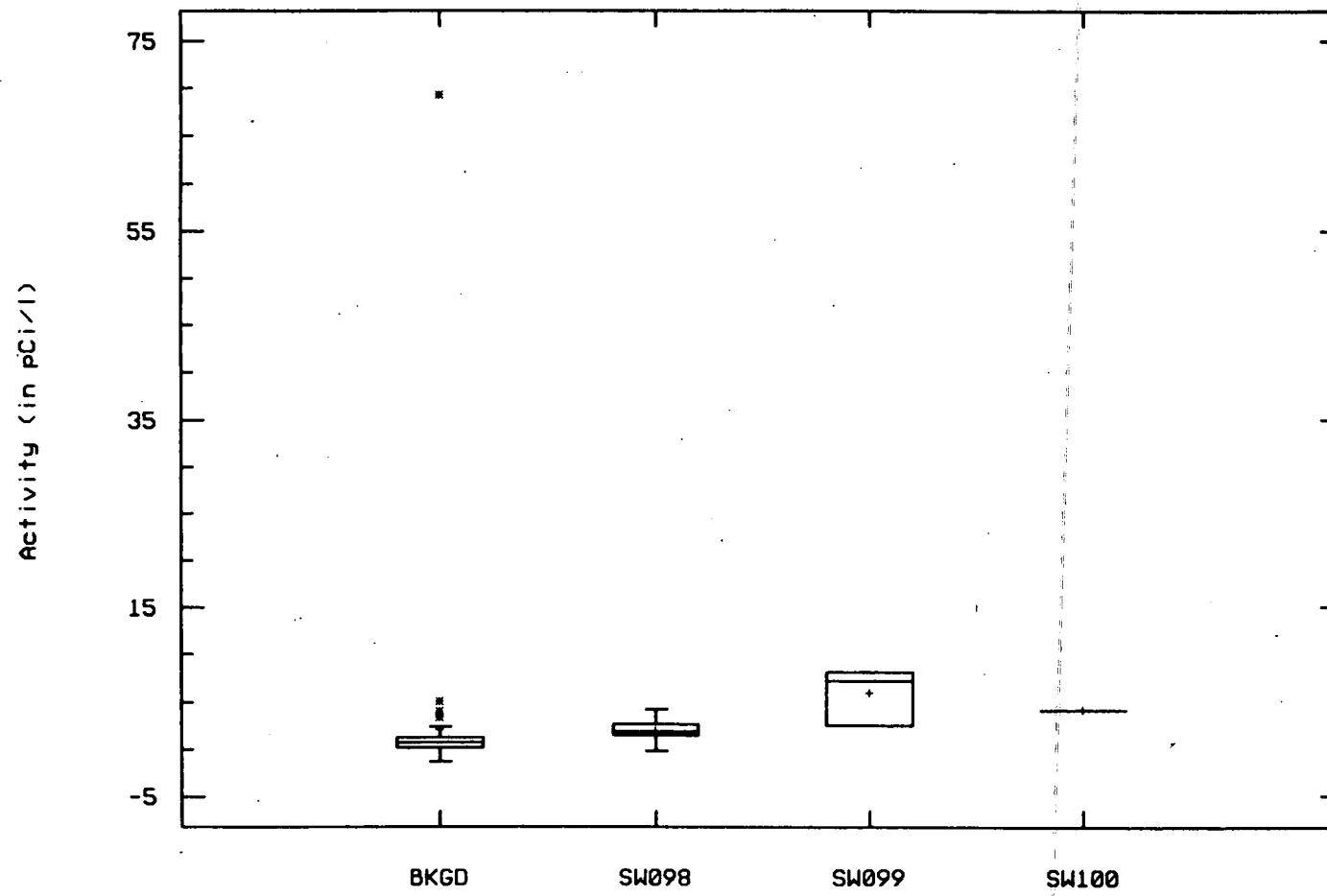
COPPER (Dissolved): Surface Water
Background vs. OUT SW Stations



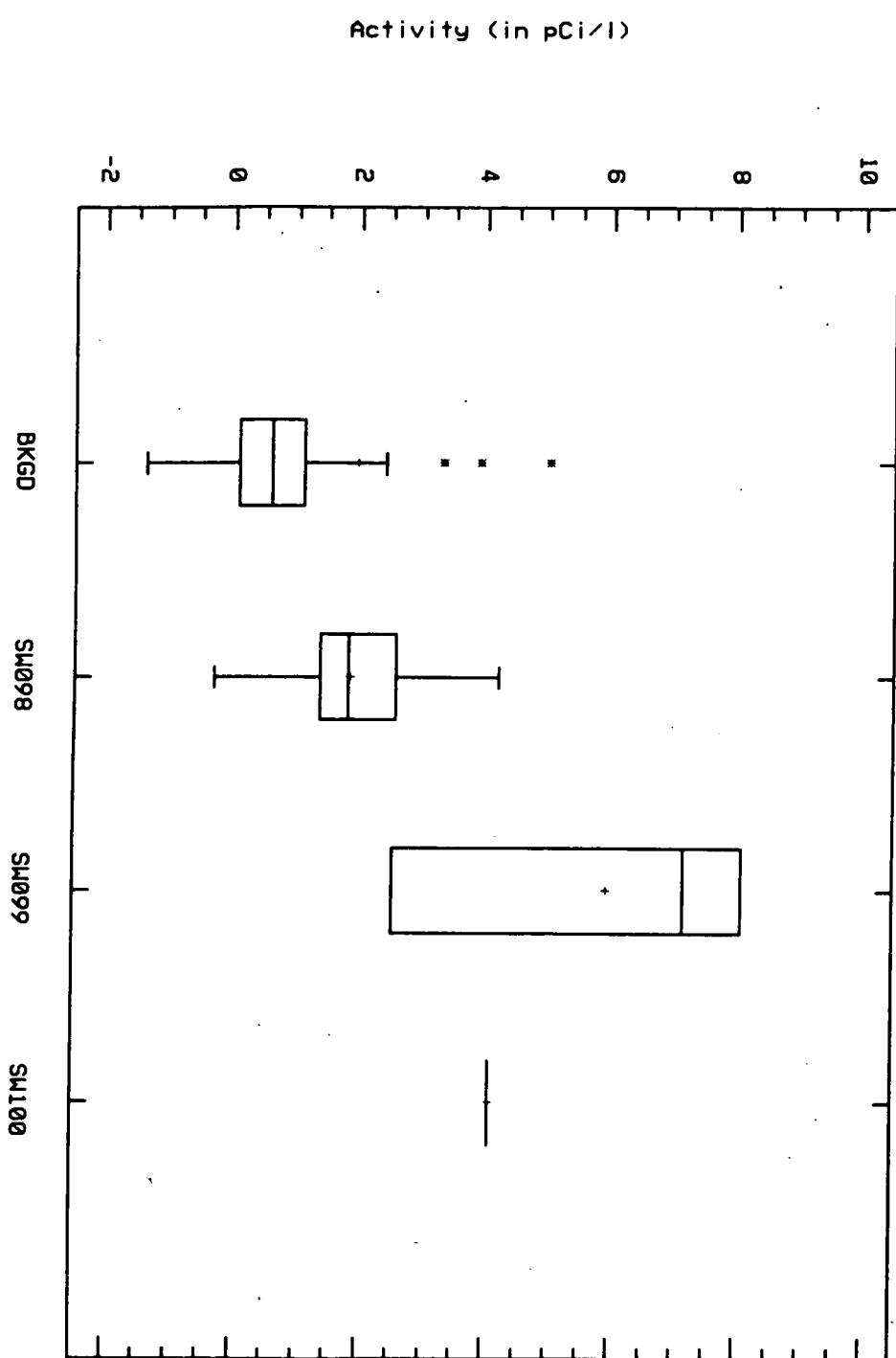
COPPER (Dissolved): Surface Water
Background vs. OUT SW Stations



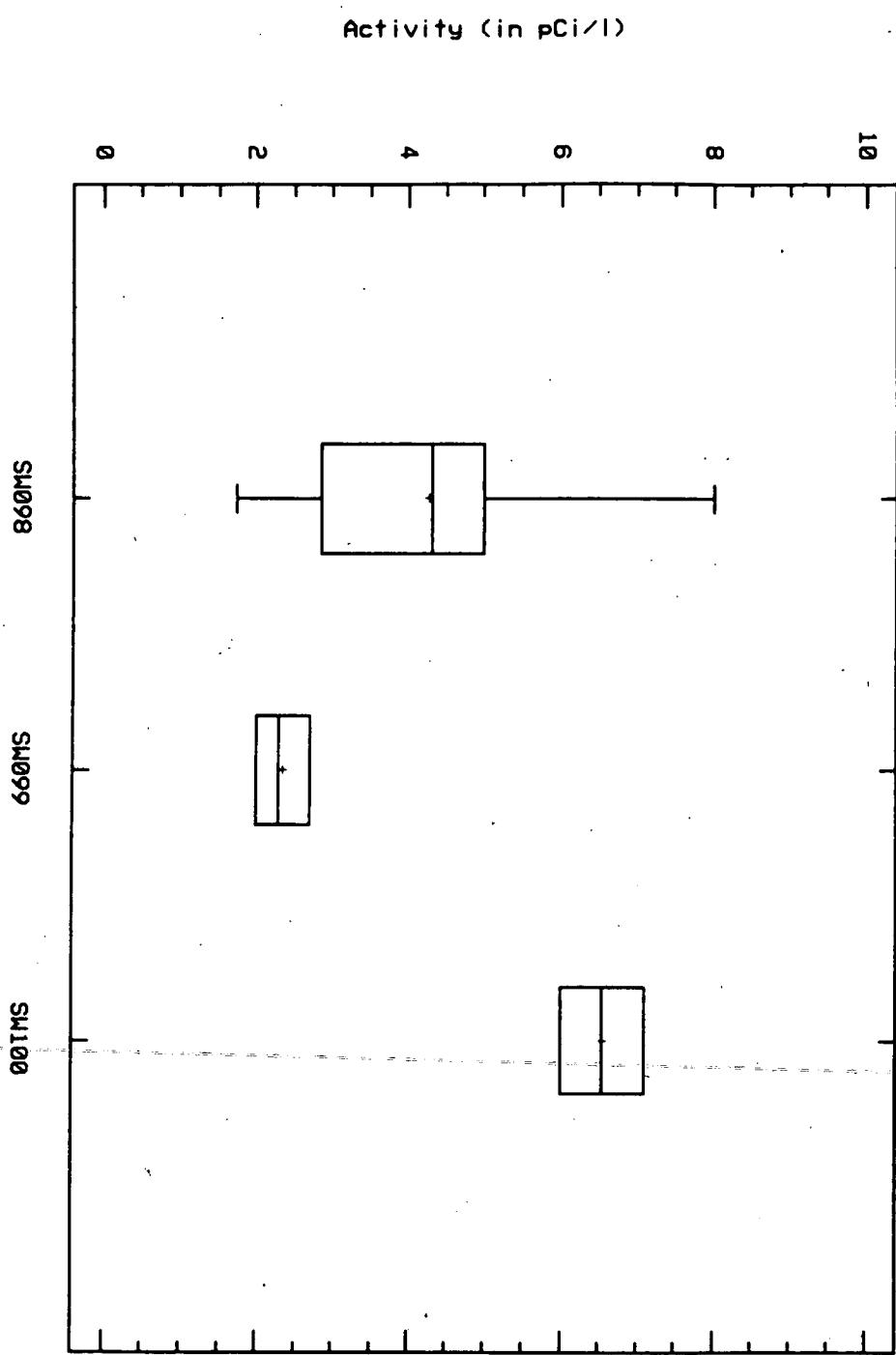
Gross Alpha (Dissolved): Surface Water
Background vs. OU7 SW Stations



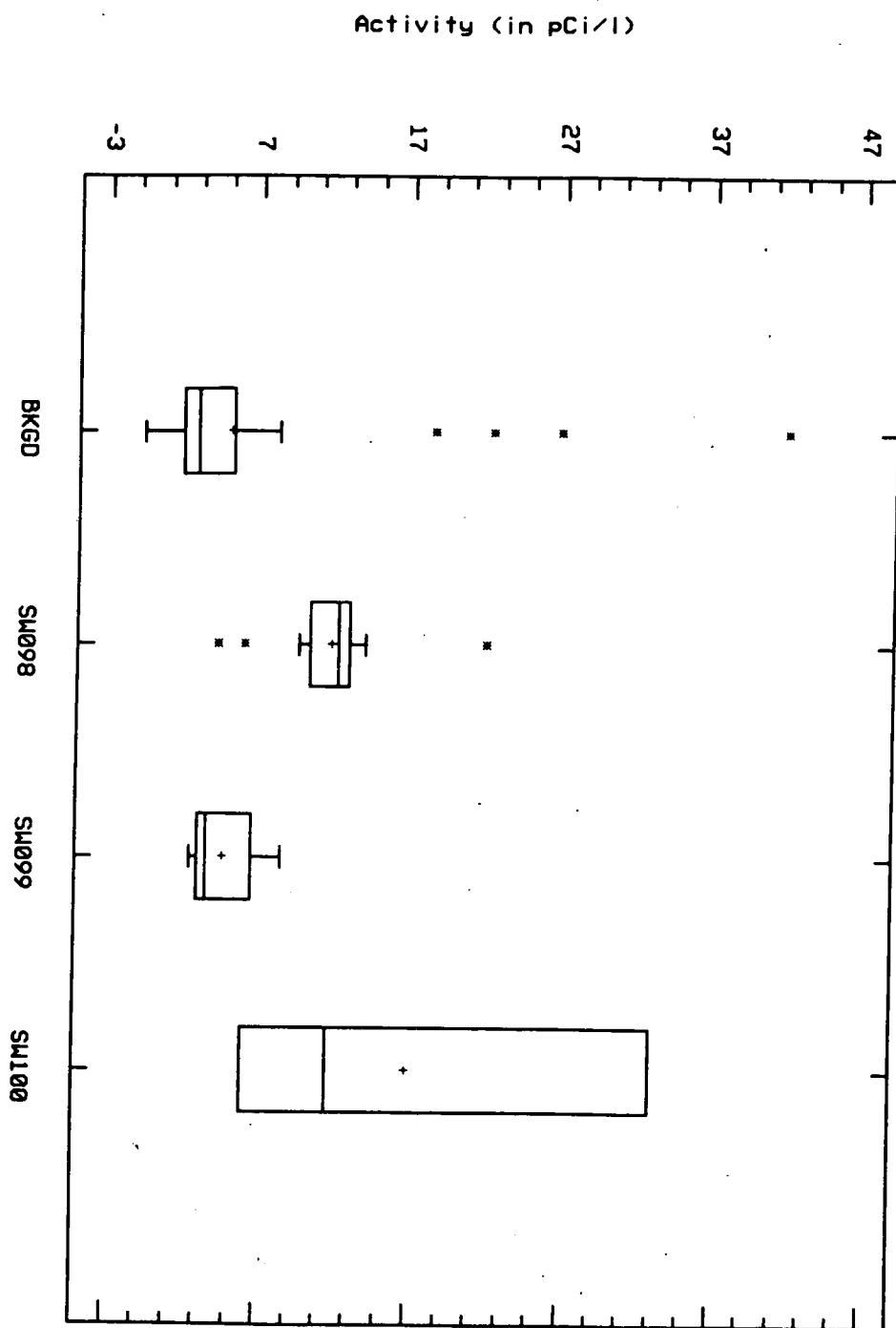
Gross Alpha (Dissolved): Surface Water
Background vs. OUT SW Stations



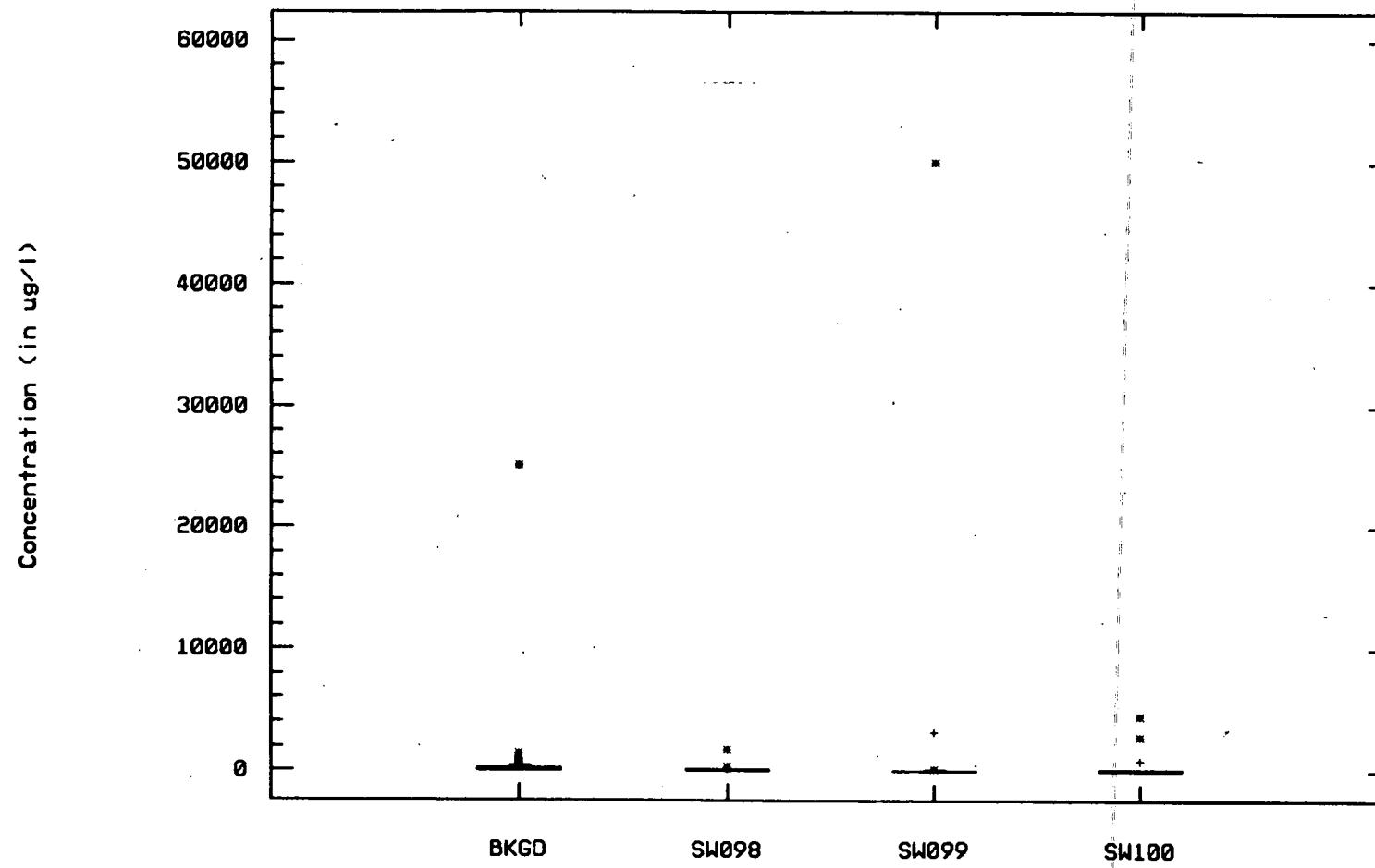
Gross Alpha (Suspended): Surface Water
Background vs. OUT SW Stations



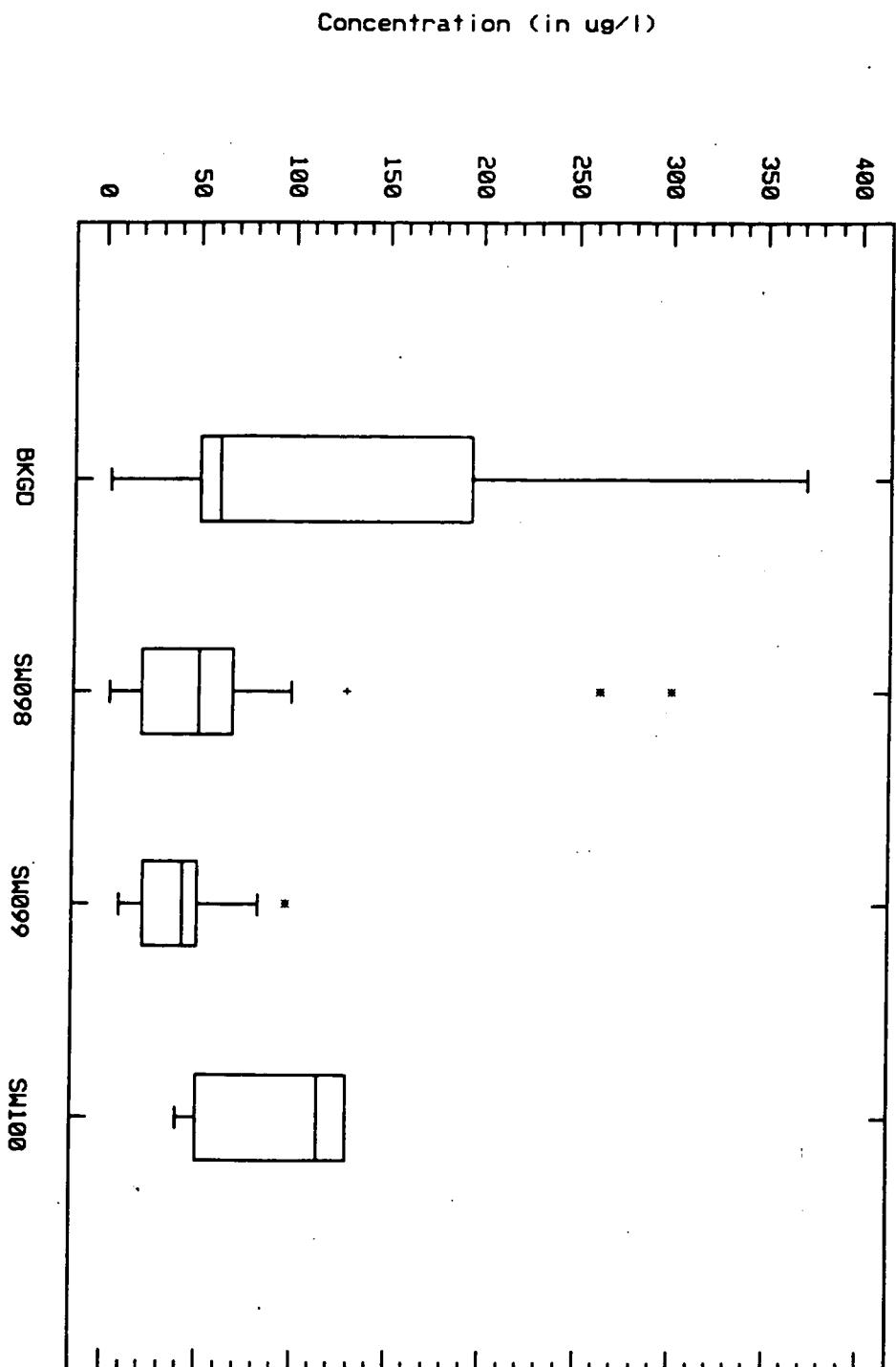
Gross Beta (Dissolved): Surface Water
Background vs. OUT SW Stations



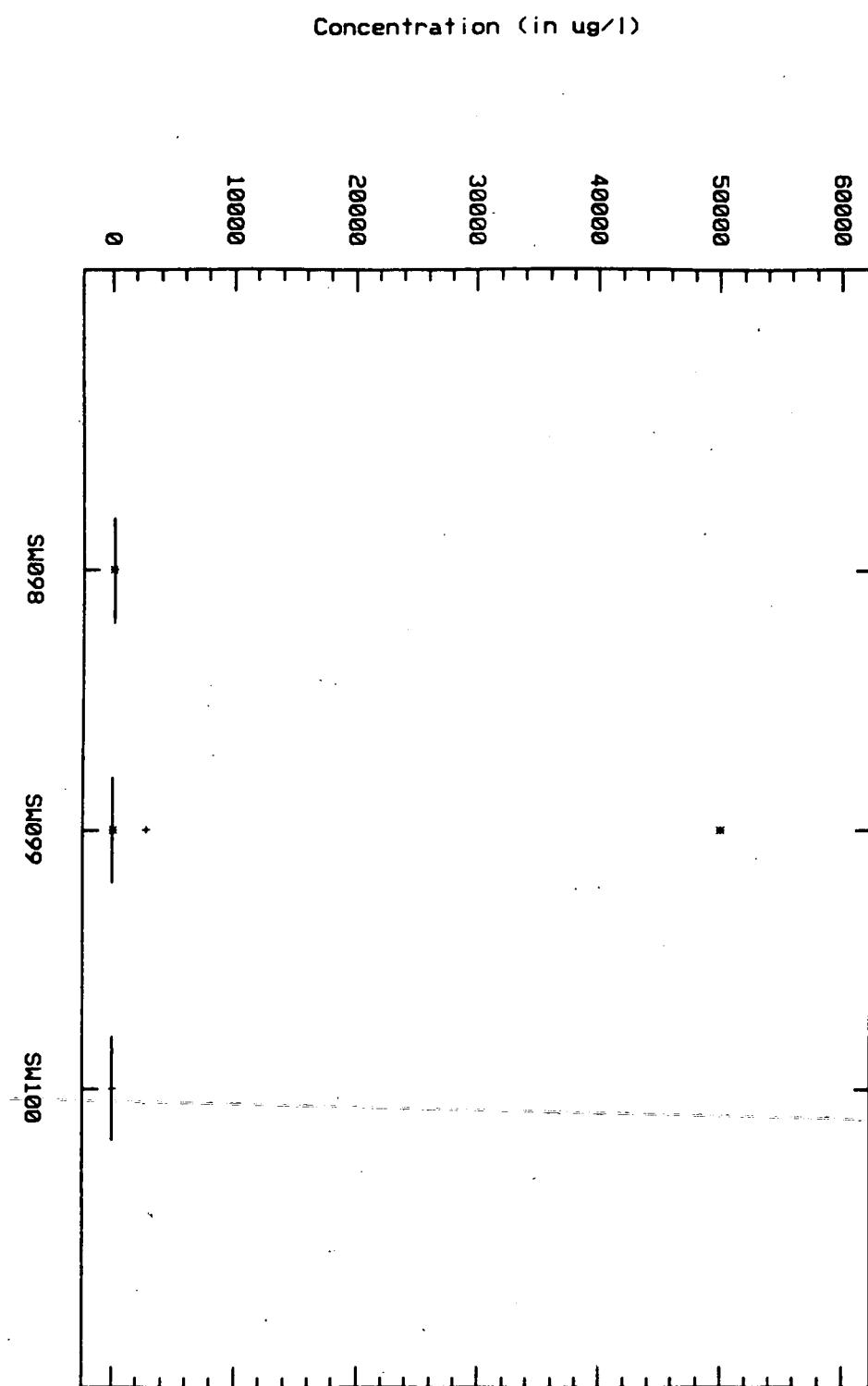
Iron (Dissolved): Surface Water
Background vs. OU7 SW Stations



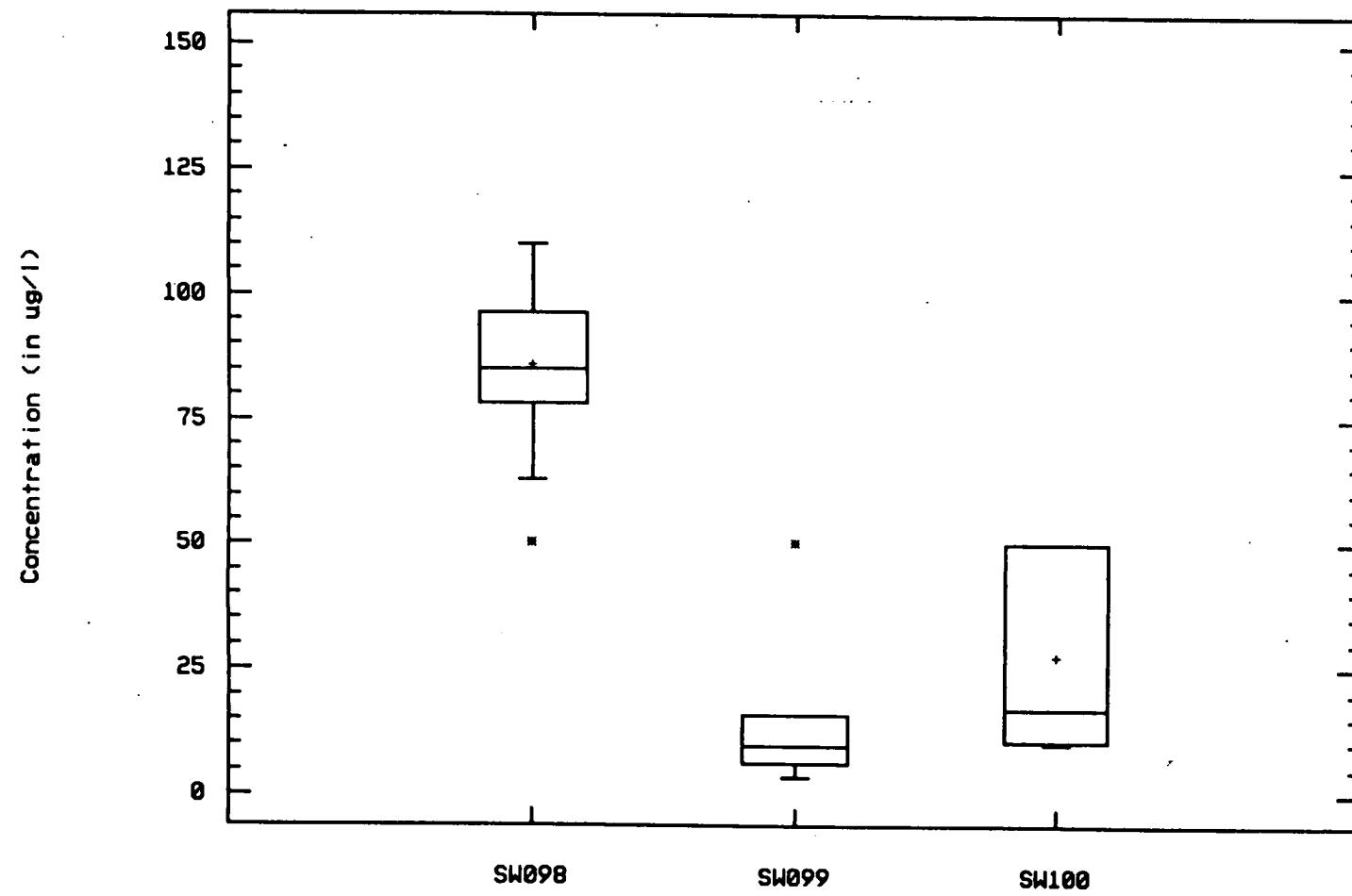
Iron (Dissolved): Surface Water
Background vs. OUT SW Stations



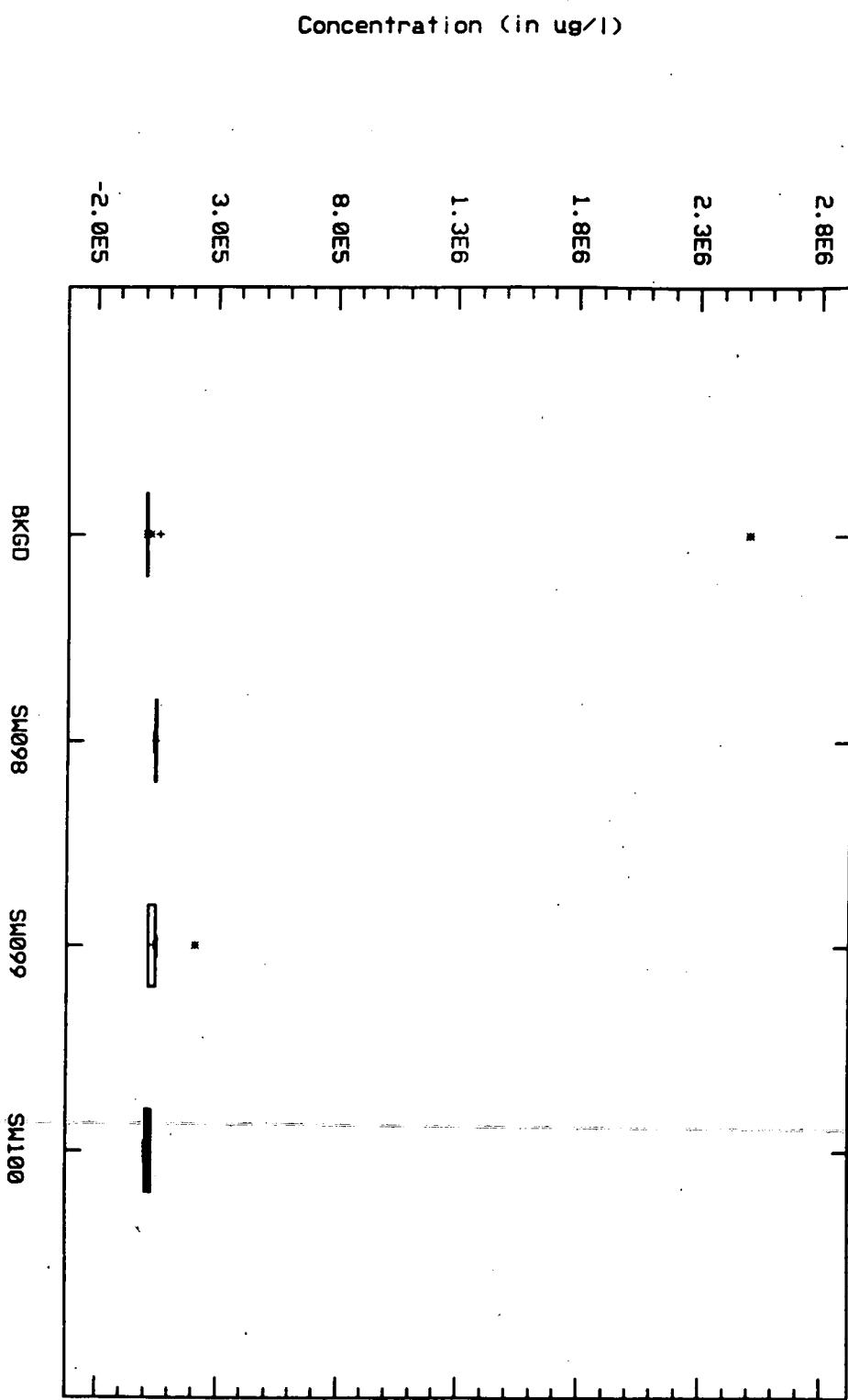
Lithium (Dissolved): Surface Water
Background vs. OUT SW Stations



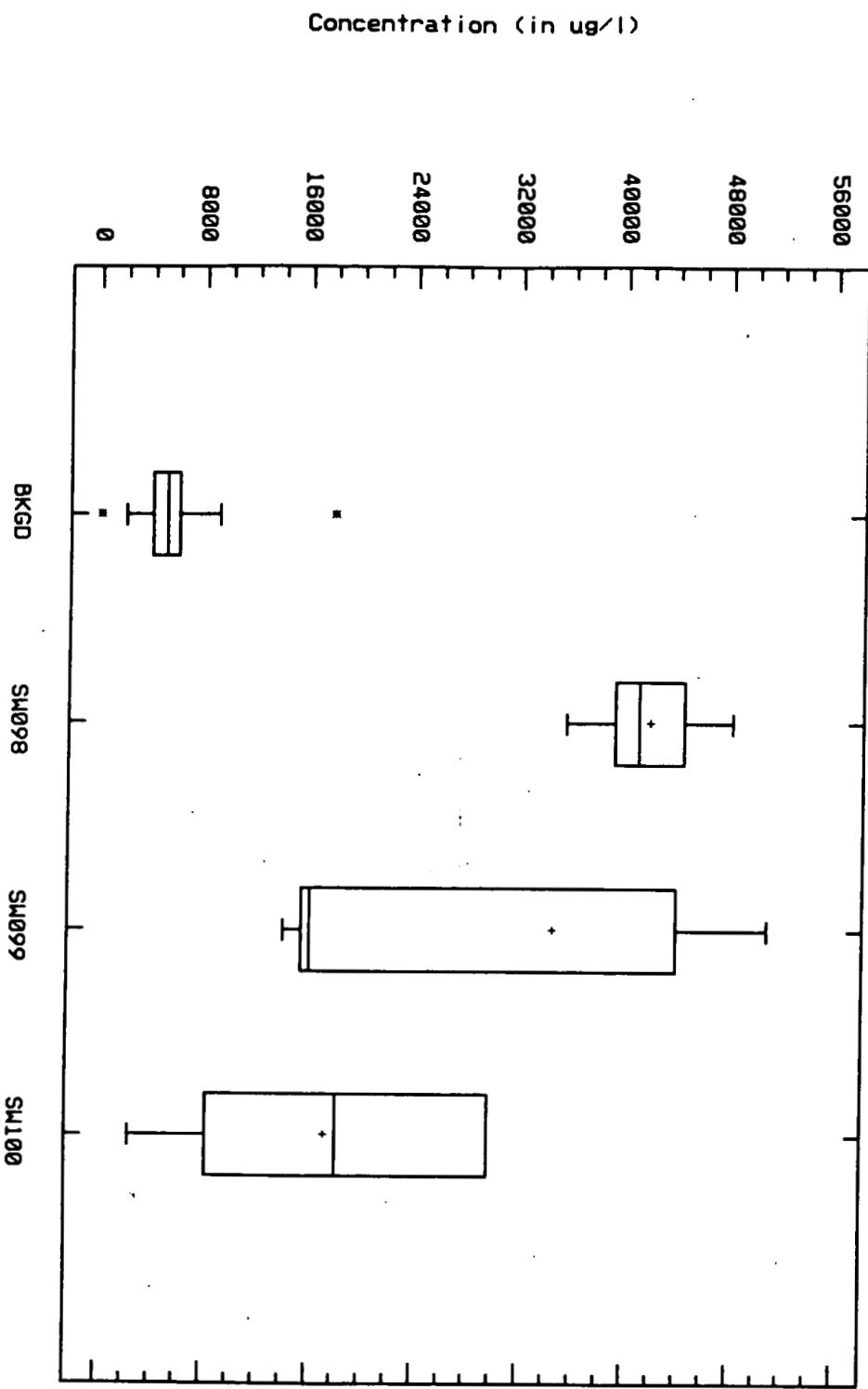
Lithium (Dissolved): Surface Water
Background vs. OU7 SW Stations



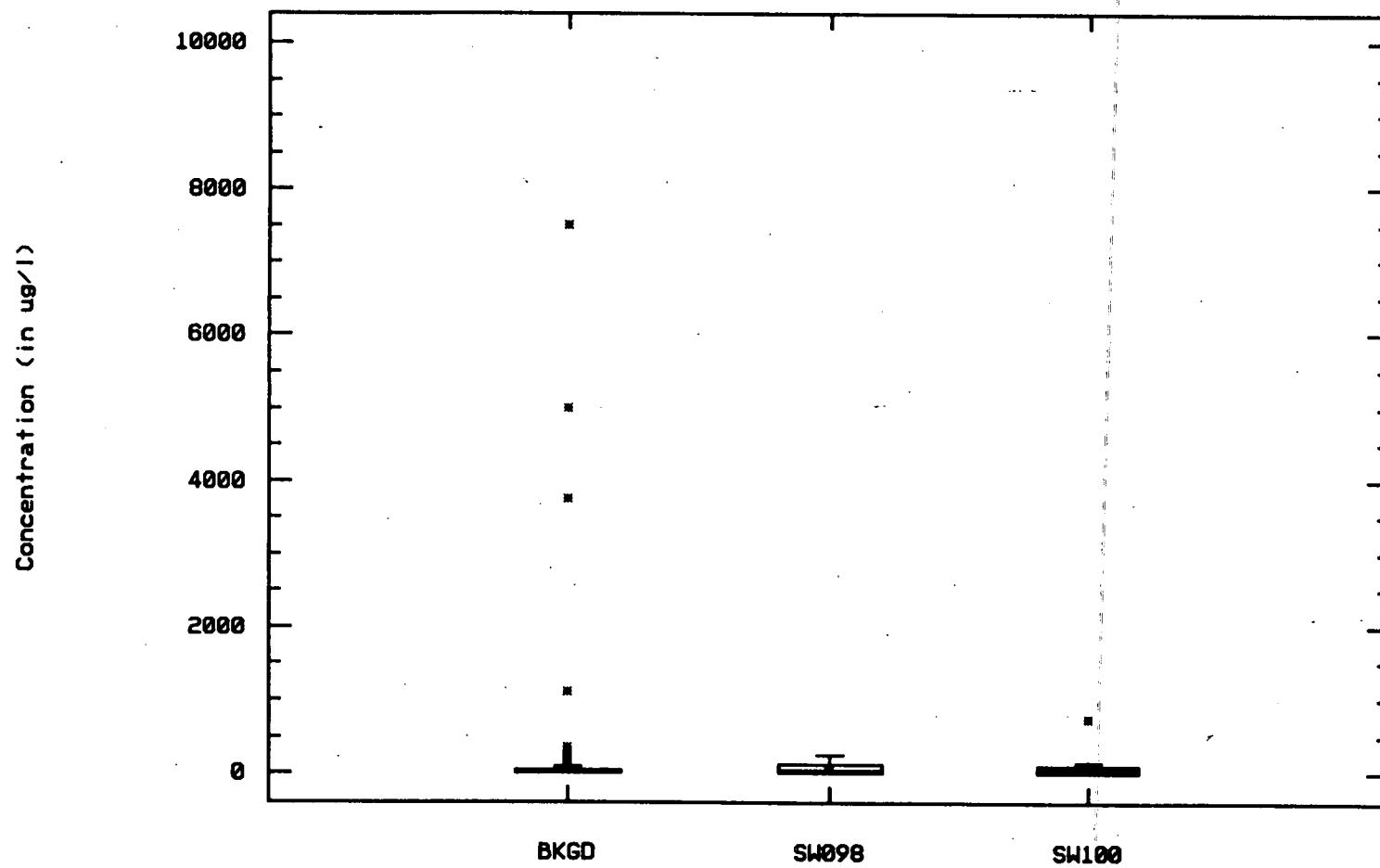
Magnesium (Dissolved): Surface Water
Background vs. 0U7 SW Stations



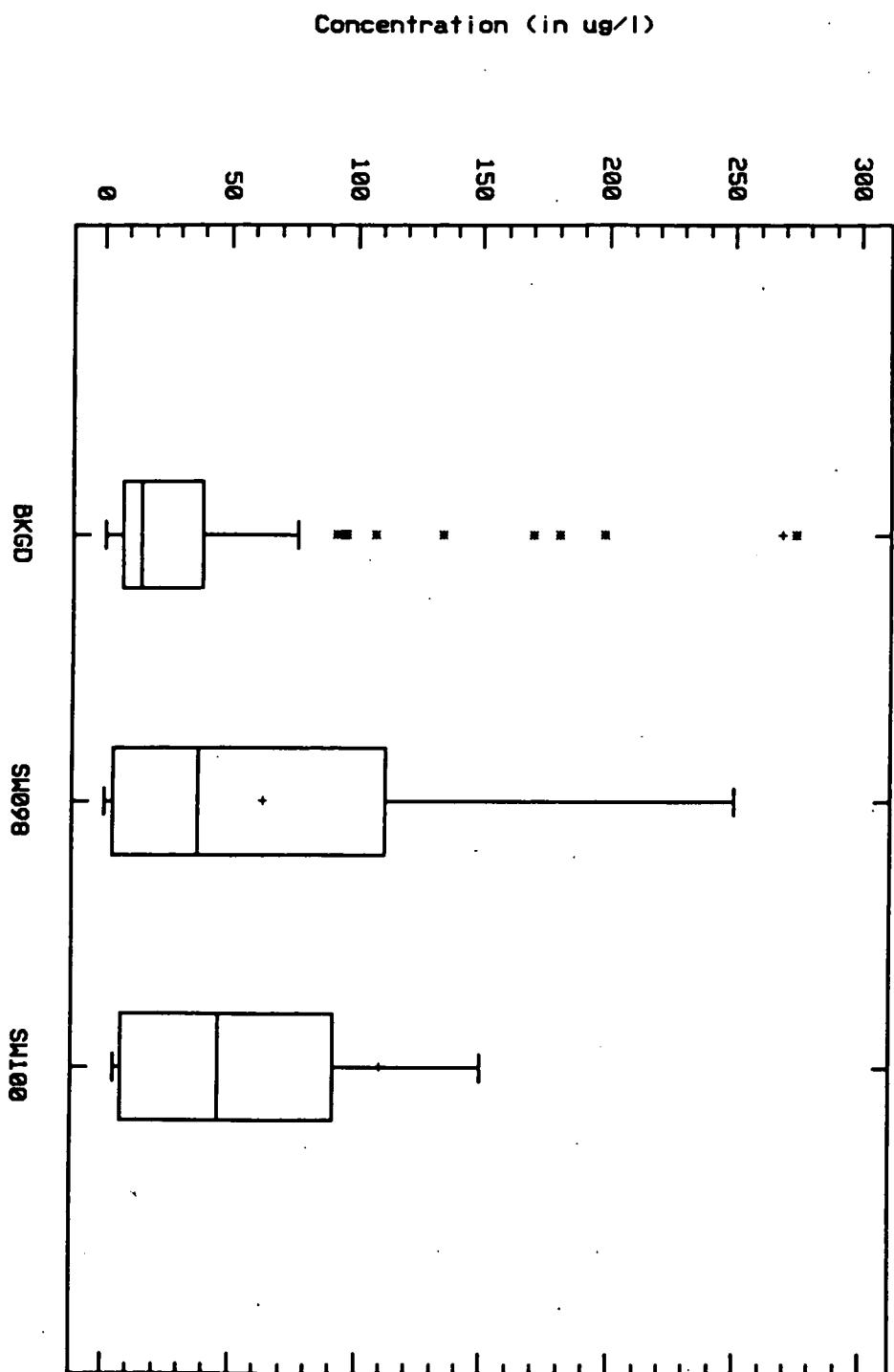
Magnesium (Dissolved): Surface Water
Background vs. OUT SW Stations



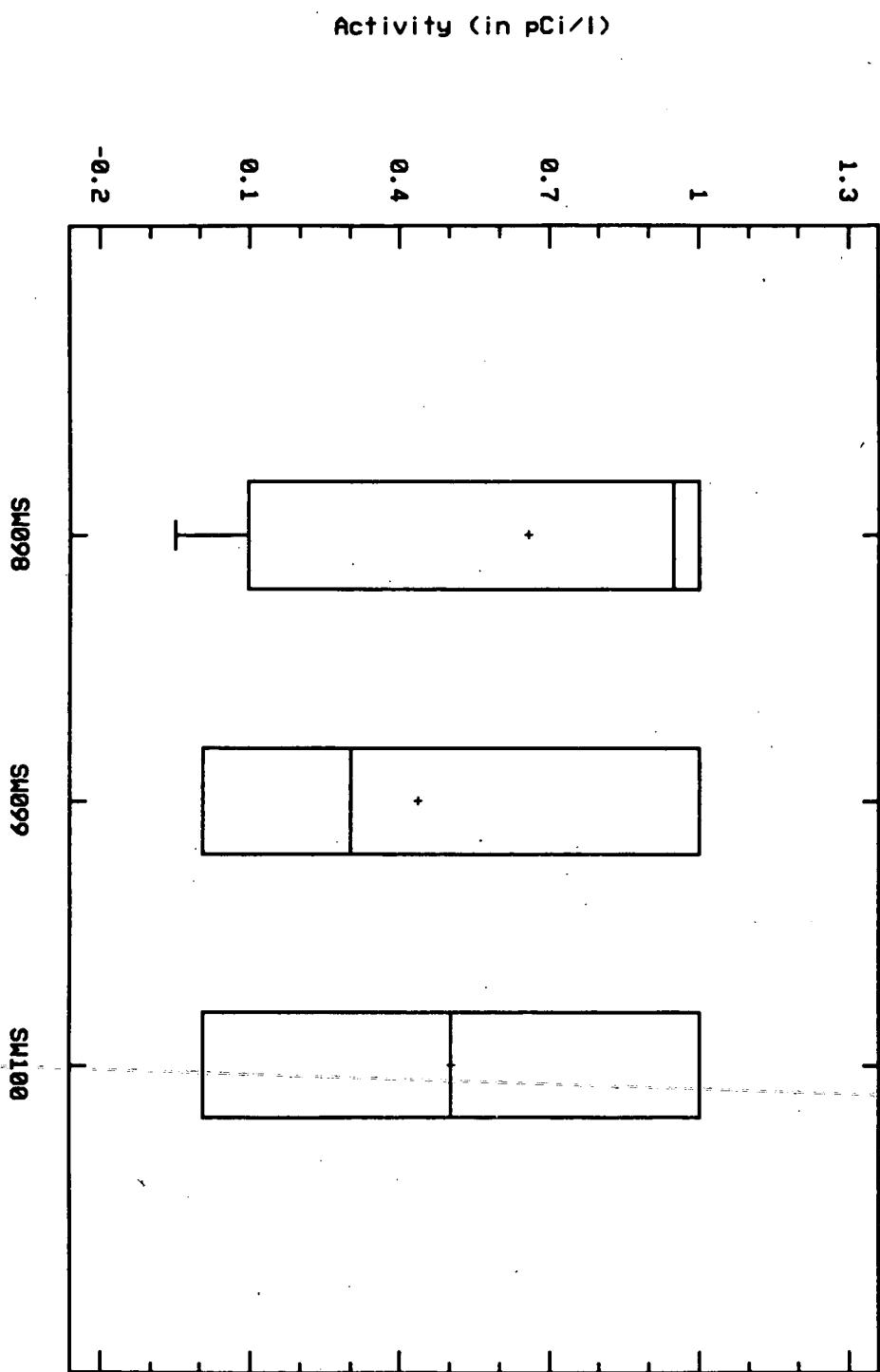
Manganese (Dissolved): Surface Water
Background vs. OU7 SW Stations



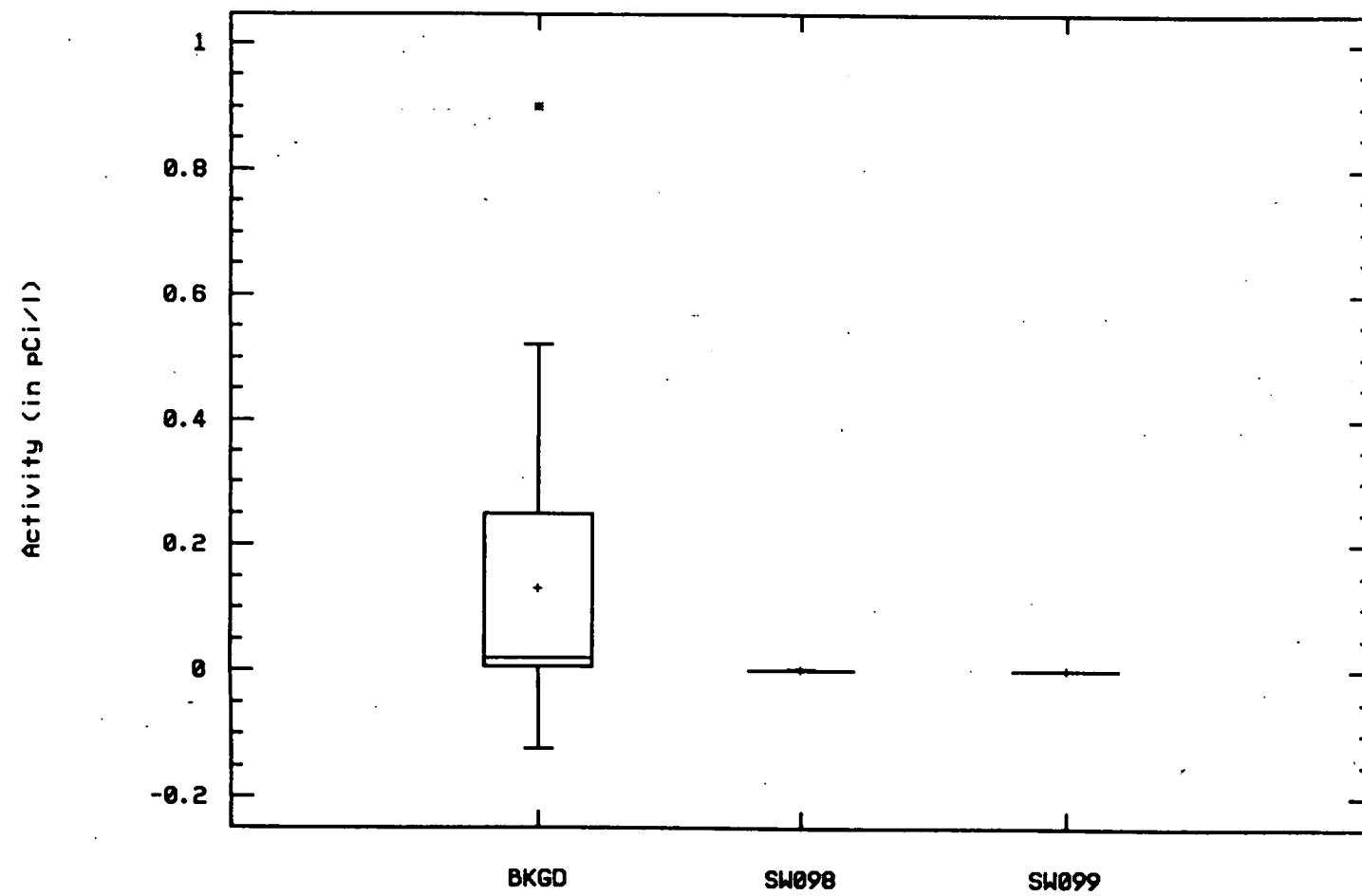
Manganese (Dissolved): Surface Water
Background vs. DU7 SW Stations



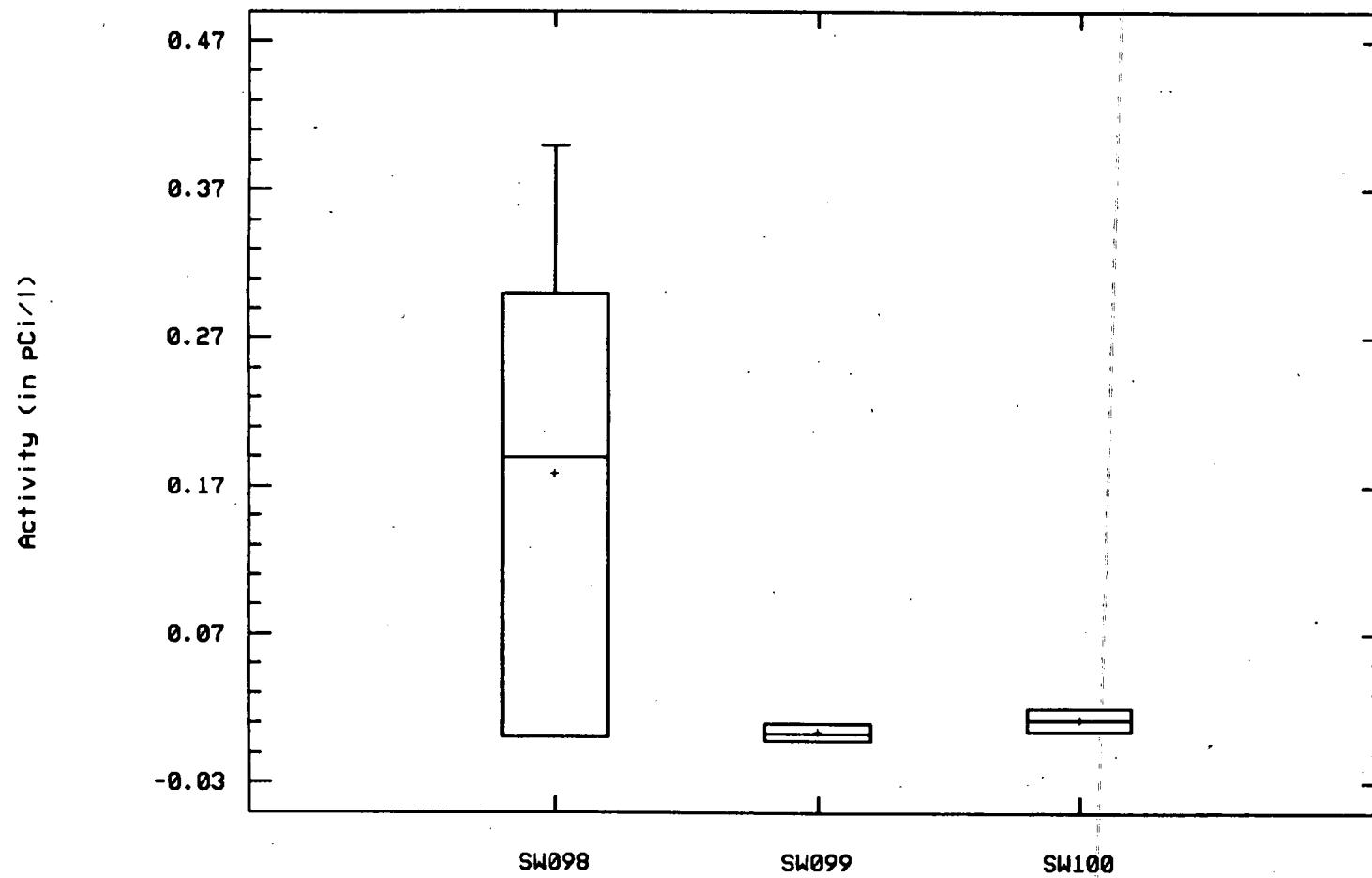
**Neptunium-237 (Dissolved): Surface Water
Background vs. OU7 SW Stations**



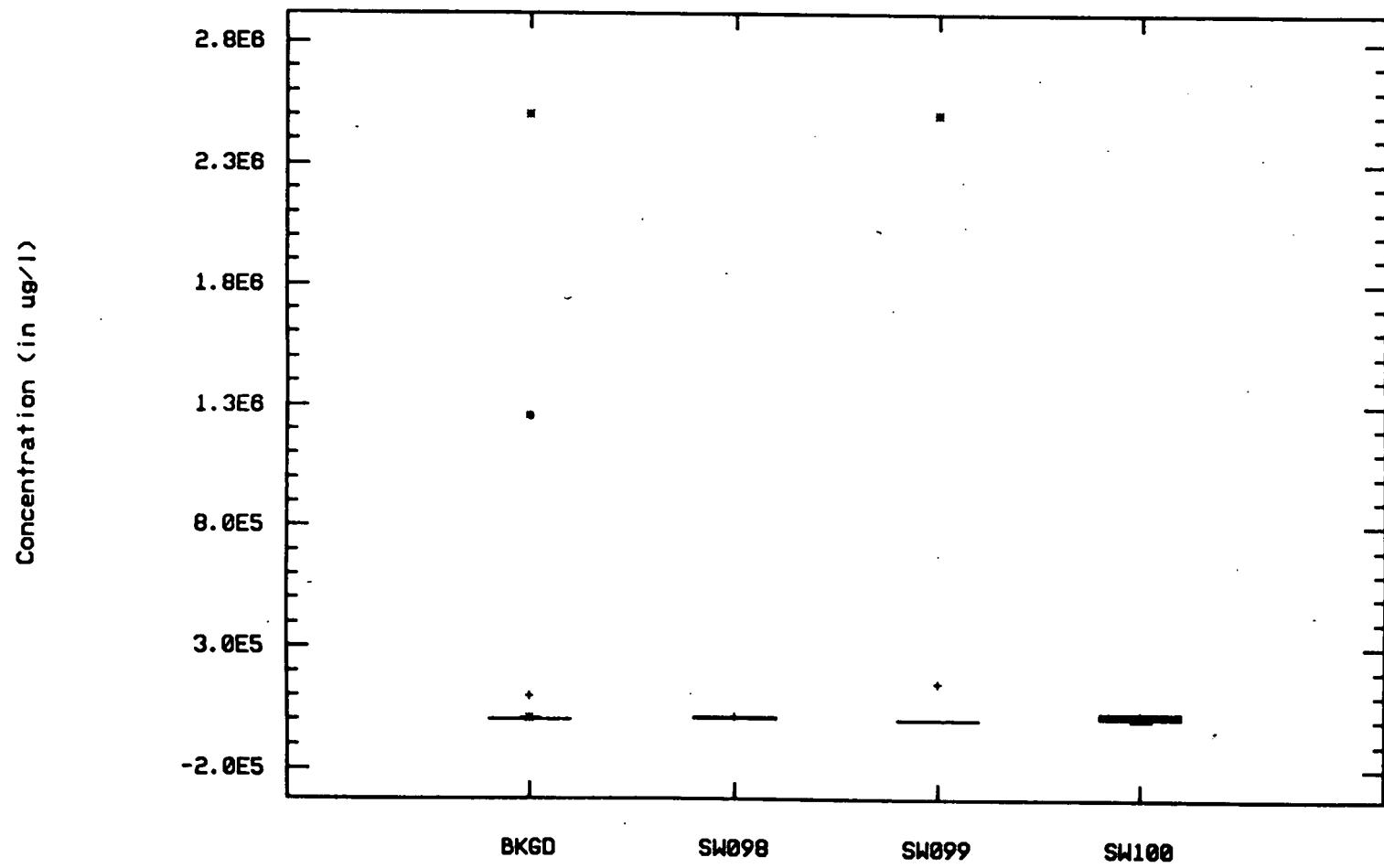
Plutonium-239/240 Dissolve: Surface Water
Background vs. OU7 SW Stations



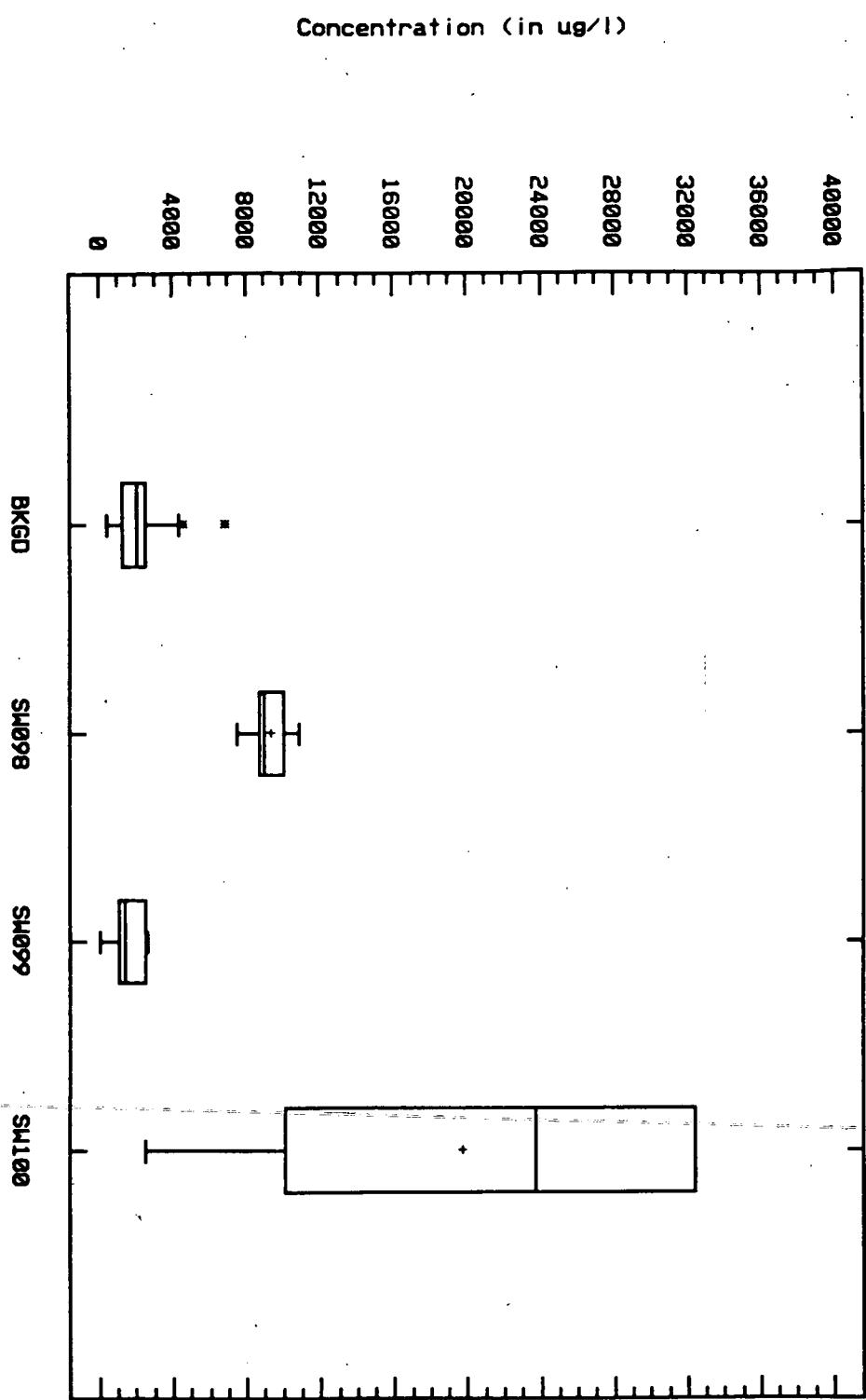
Plutonium-239 (Dissolved): Surface Water
Background vs. OU7 SW Stations



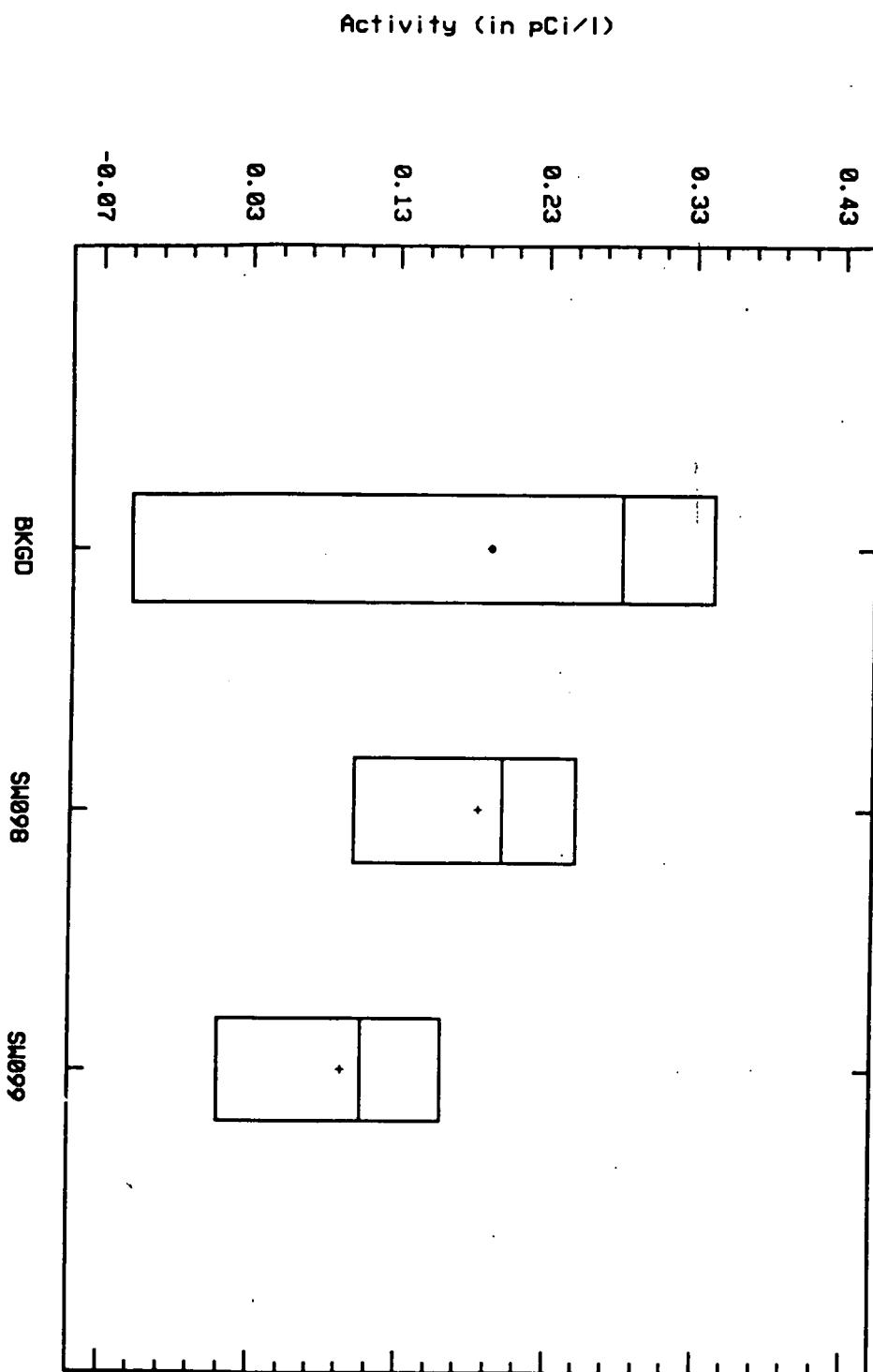
Potassium (Dissolved): Surface Water
Background vs. OU7 SW Stations



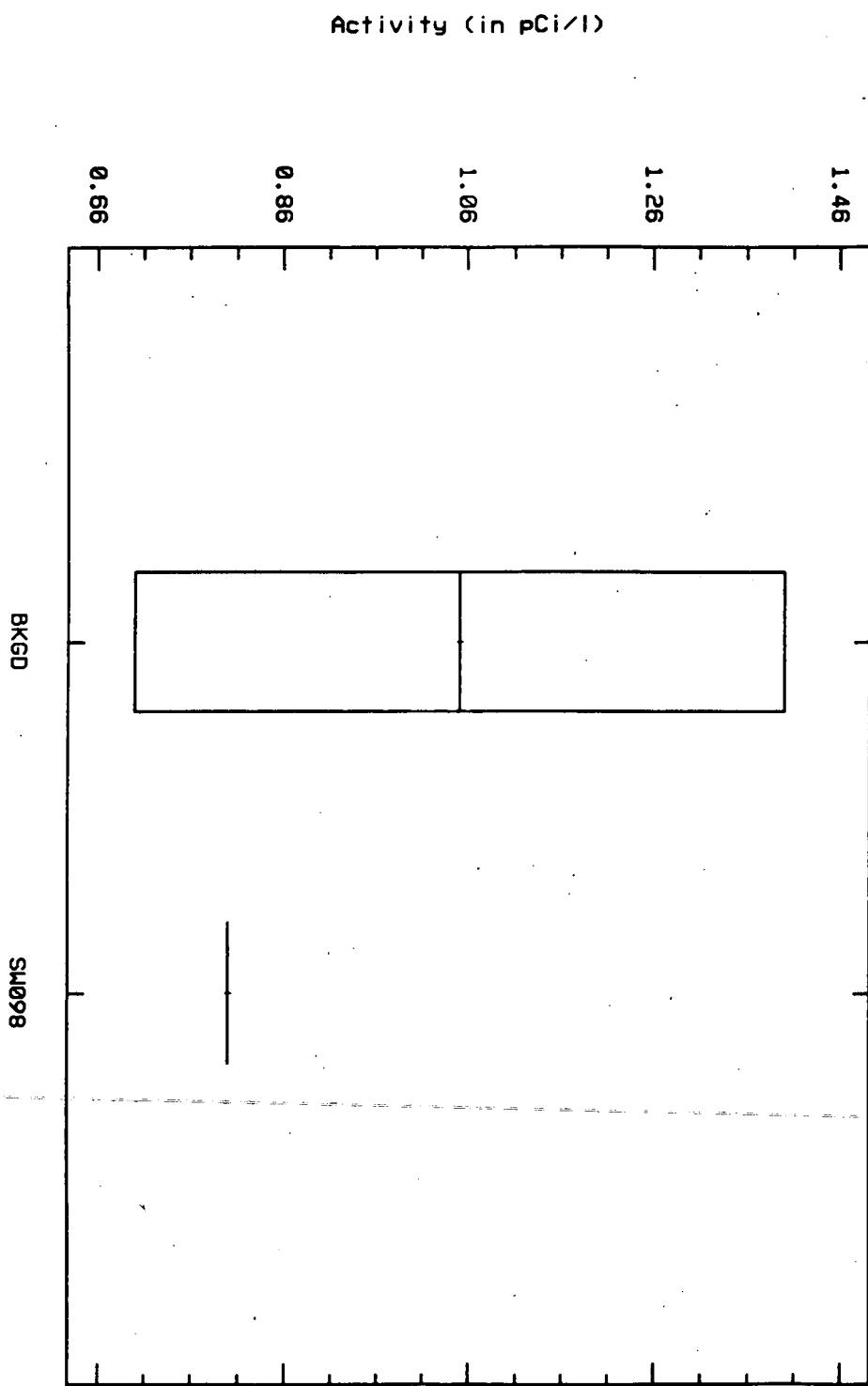
Potassium (Dissolved): Surface Water
Background vs. OUT SW Stations



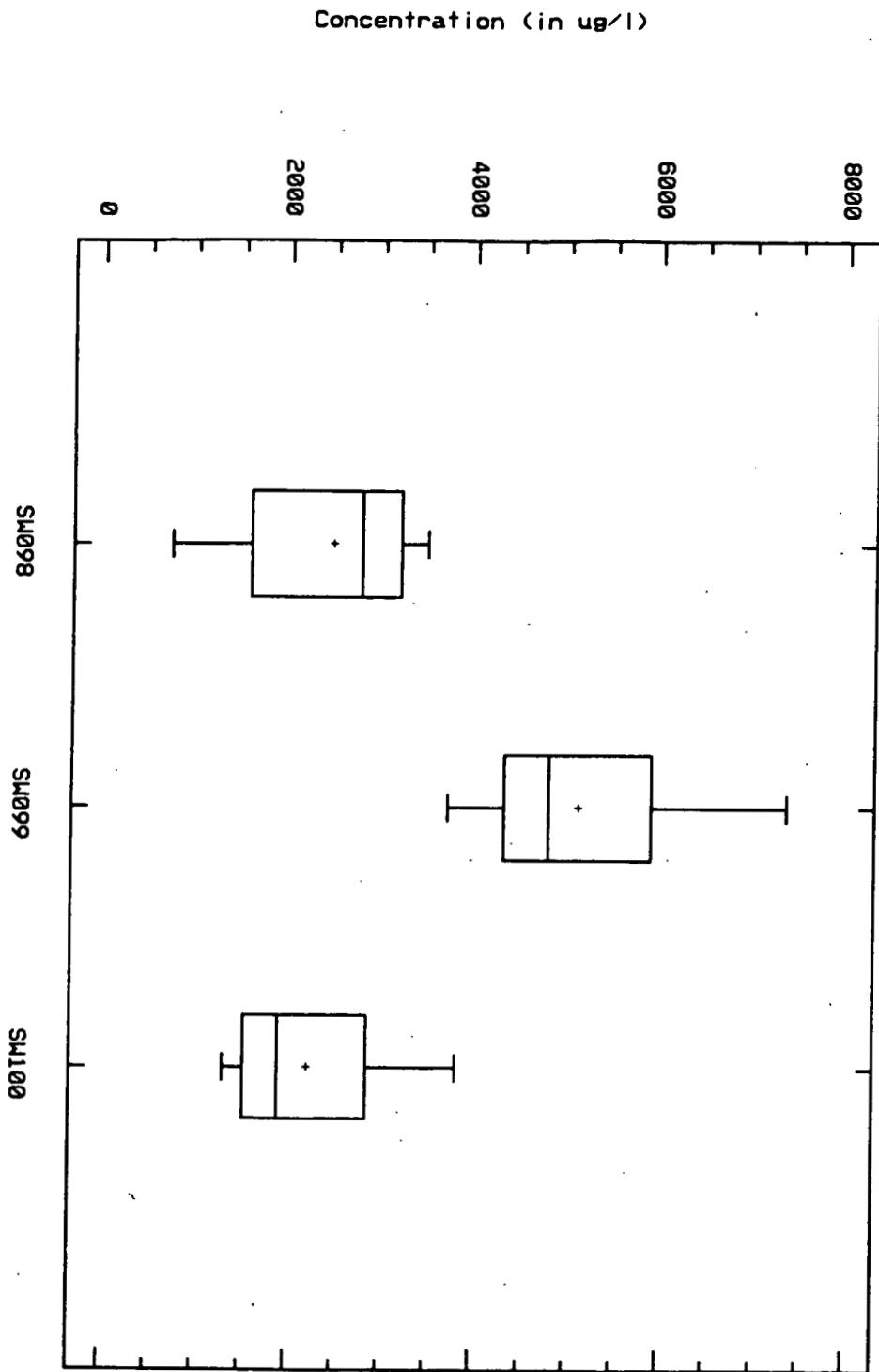
Radium-226 (Dissolved): Surface Water
Background vs. OUT SW Stations



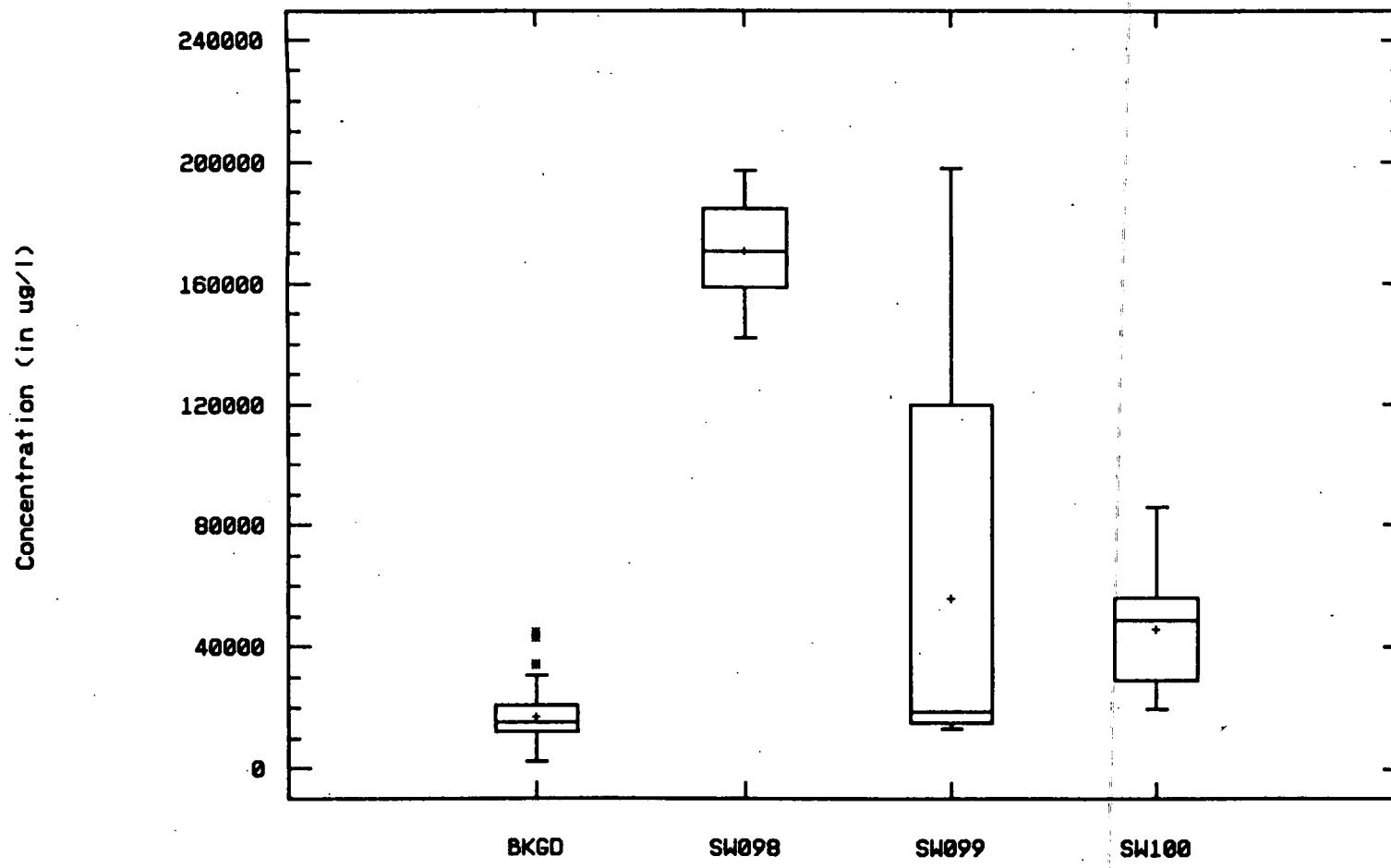
Radium-228 (Dissolved): Surface Water
Background vs. 0U7 SW Stations



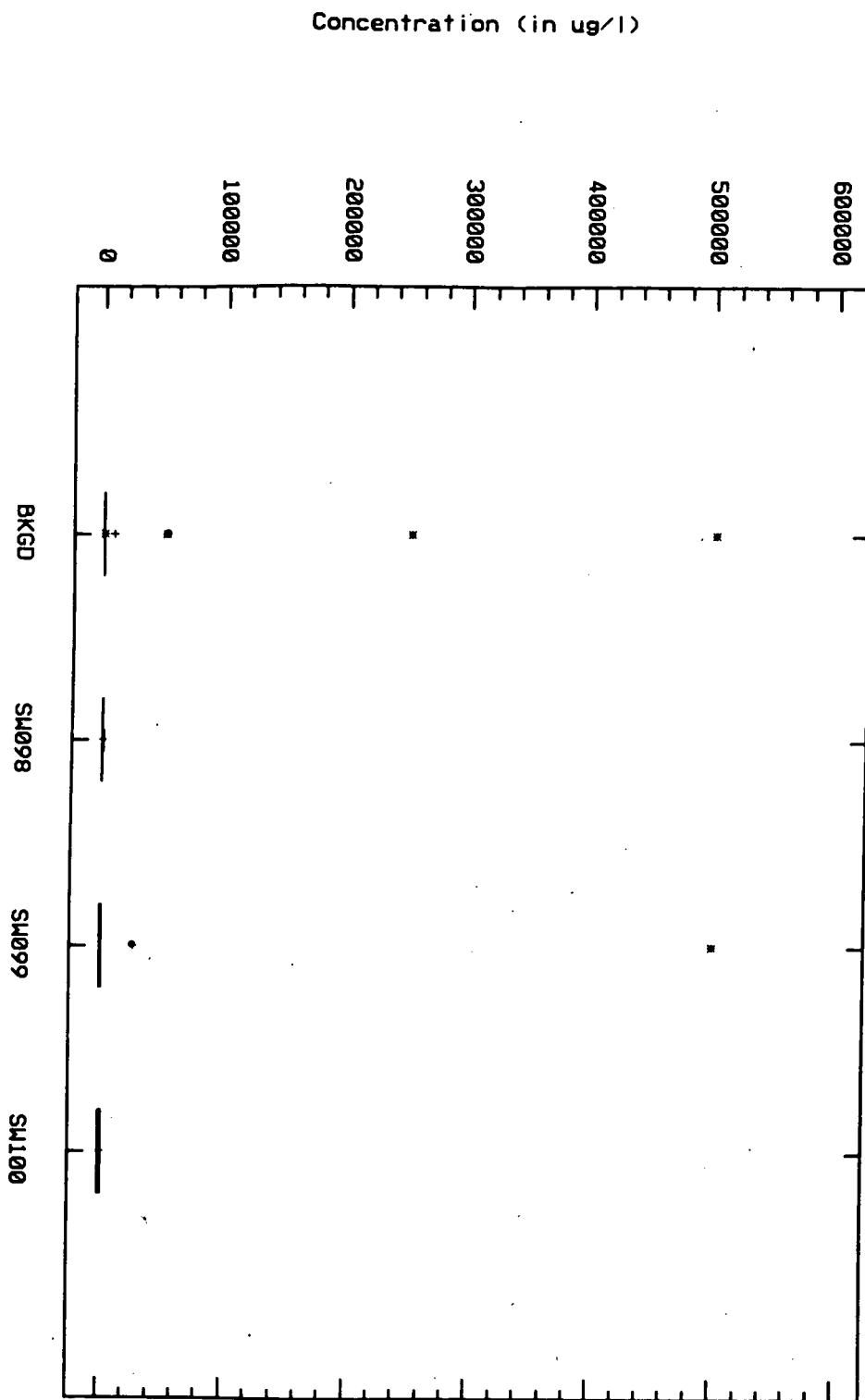
Silicon (Dissolved): Surface Water
Background vs. OUT SW Stations



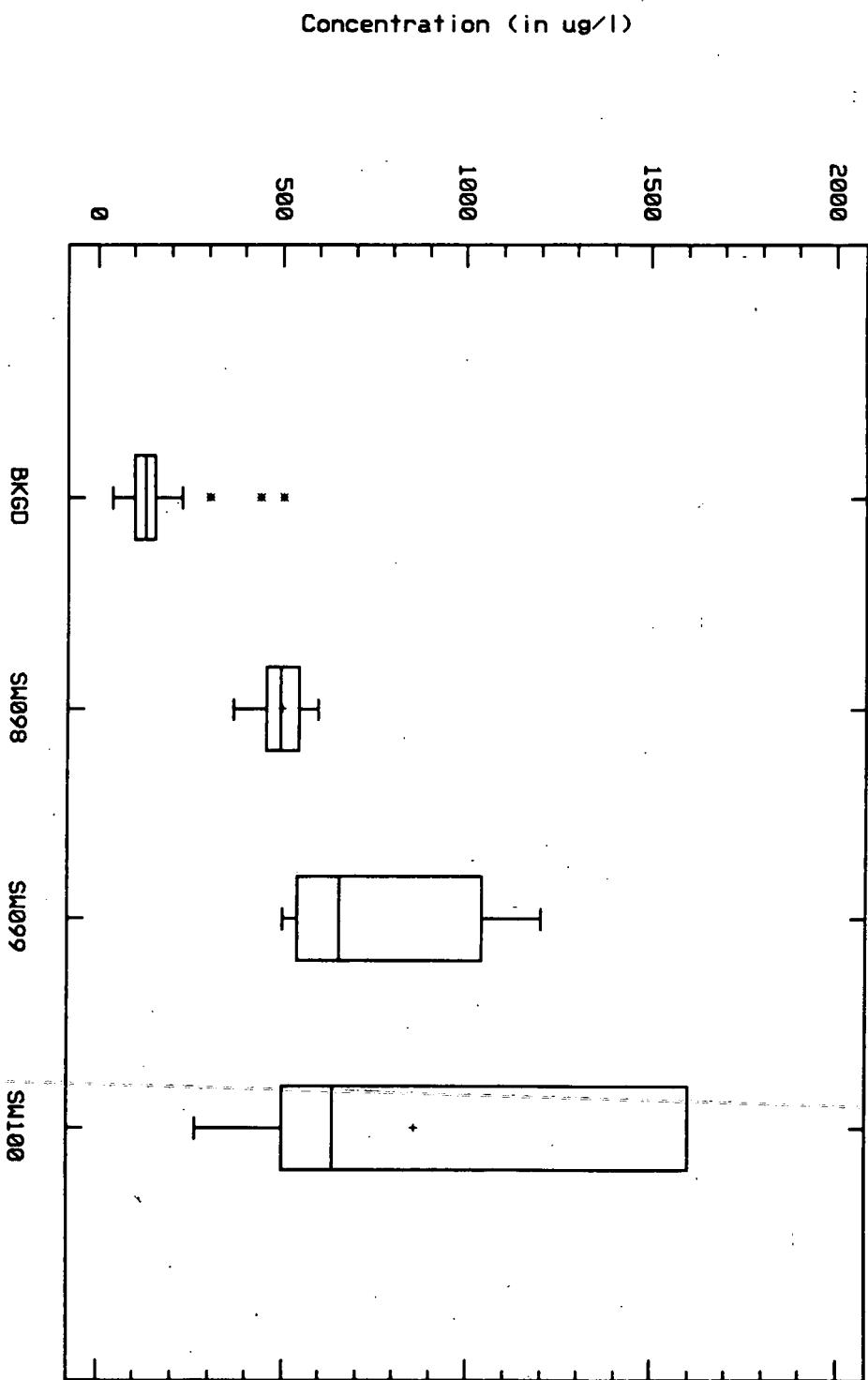
Sodium (Dissolved): Surface Water
Background vs. OU7 SW Stations



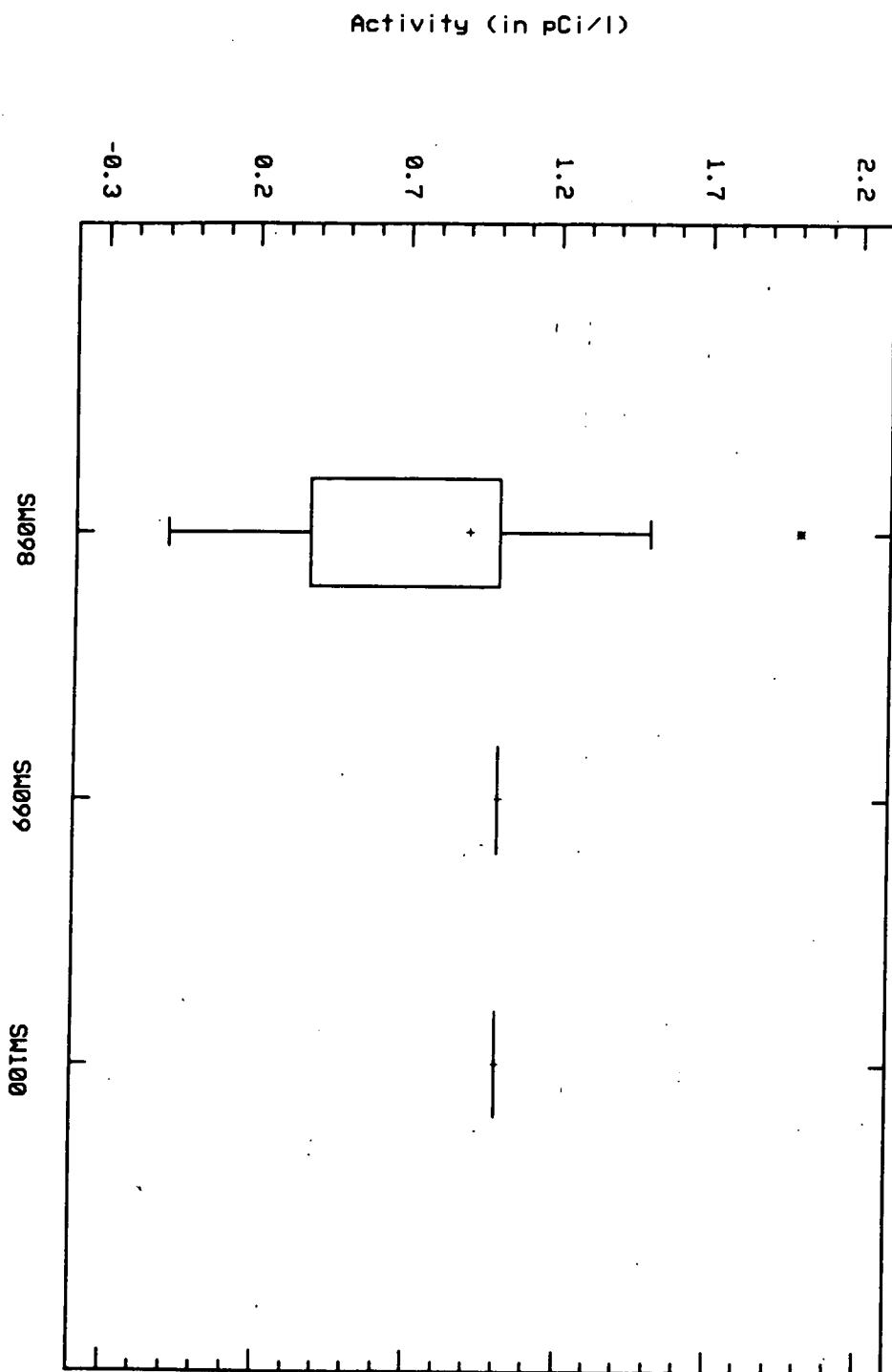
Strontium (Dissolved): Surface Water
Background vs. OUT SW Stations



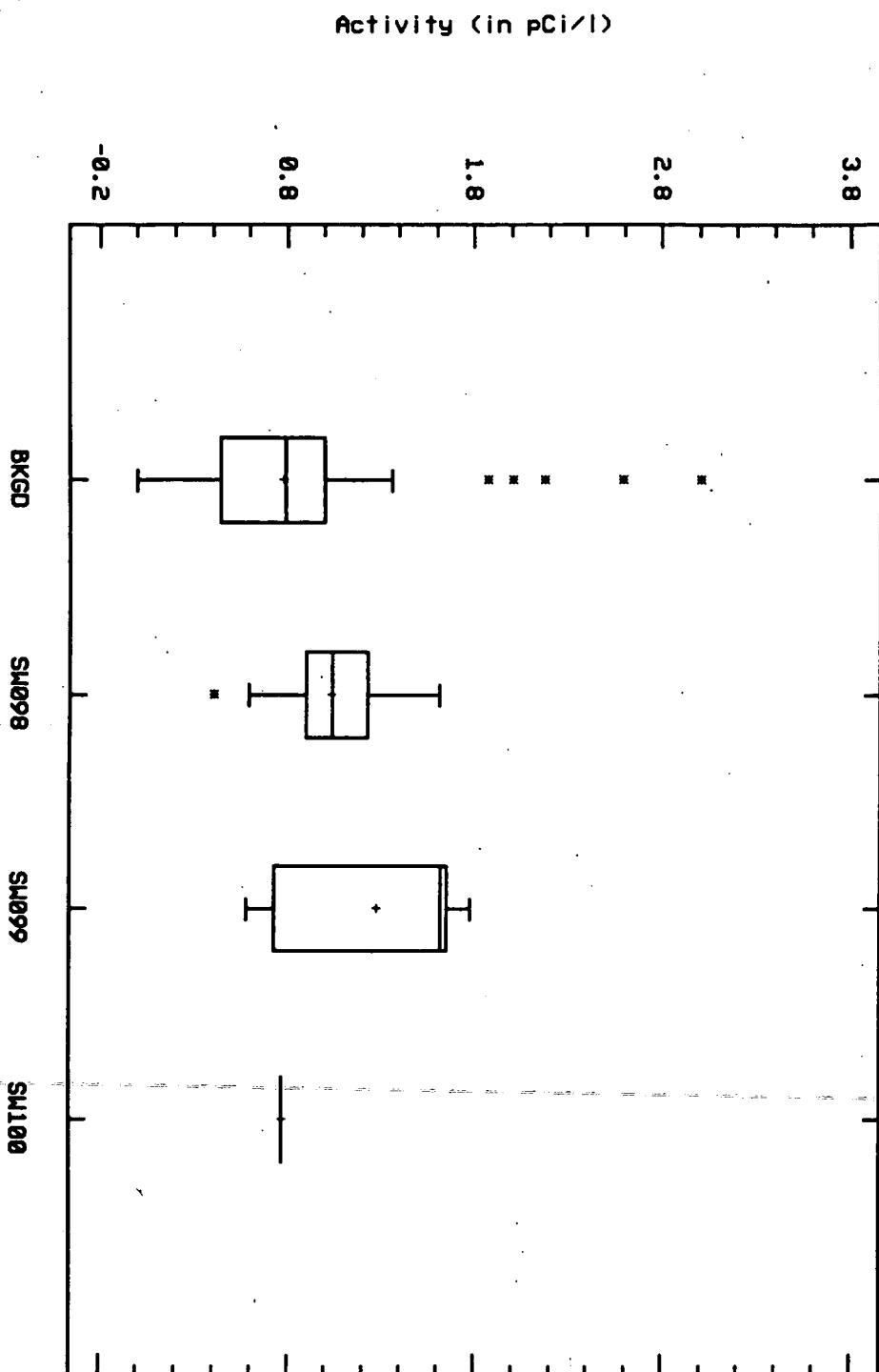
Strontium (Dissolved): Surface Water
Background vs. OUT SW Stations



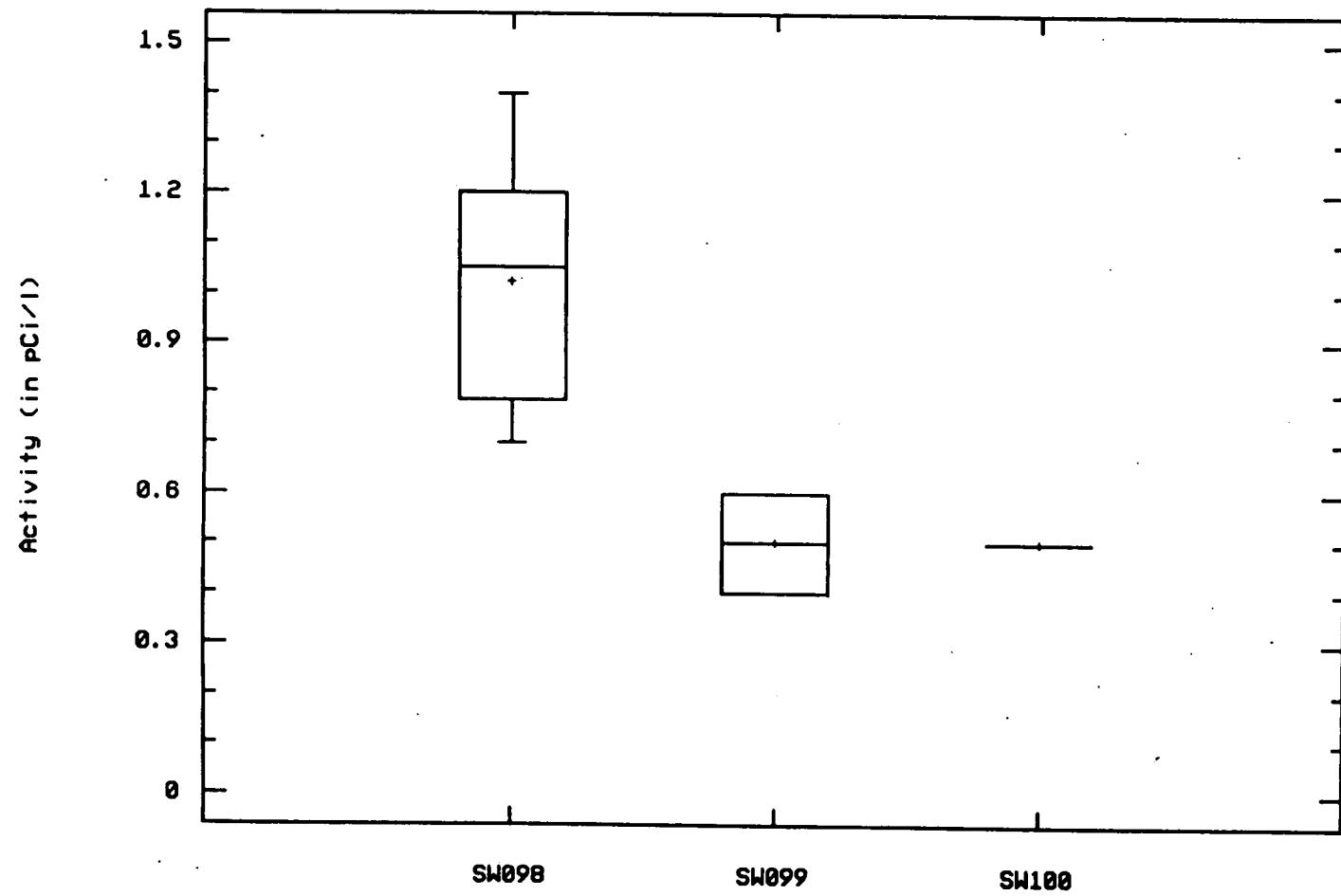
Strontium-89 (Dissolved): Surface Water
Background vs. OUT SW Stations



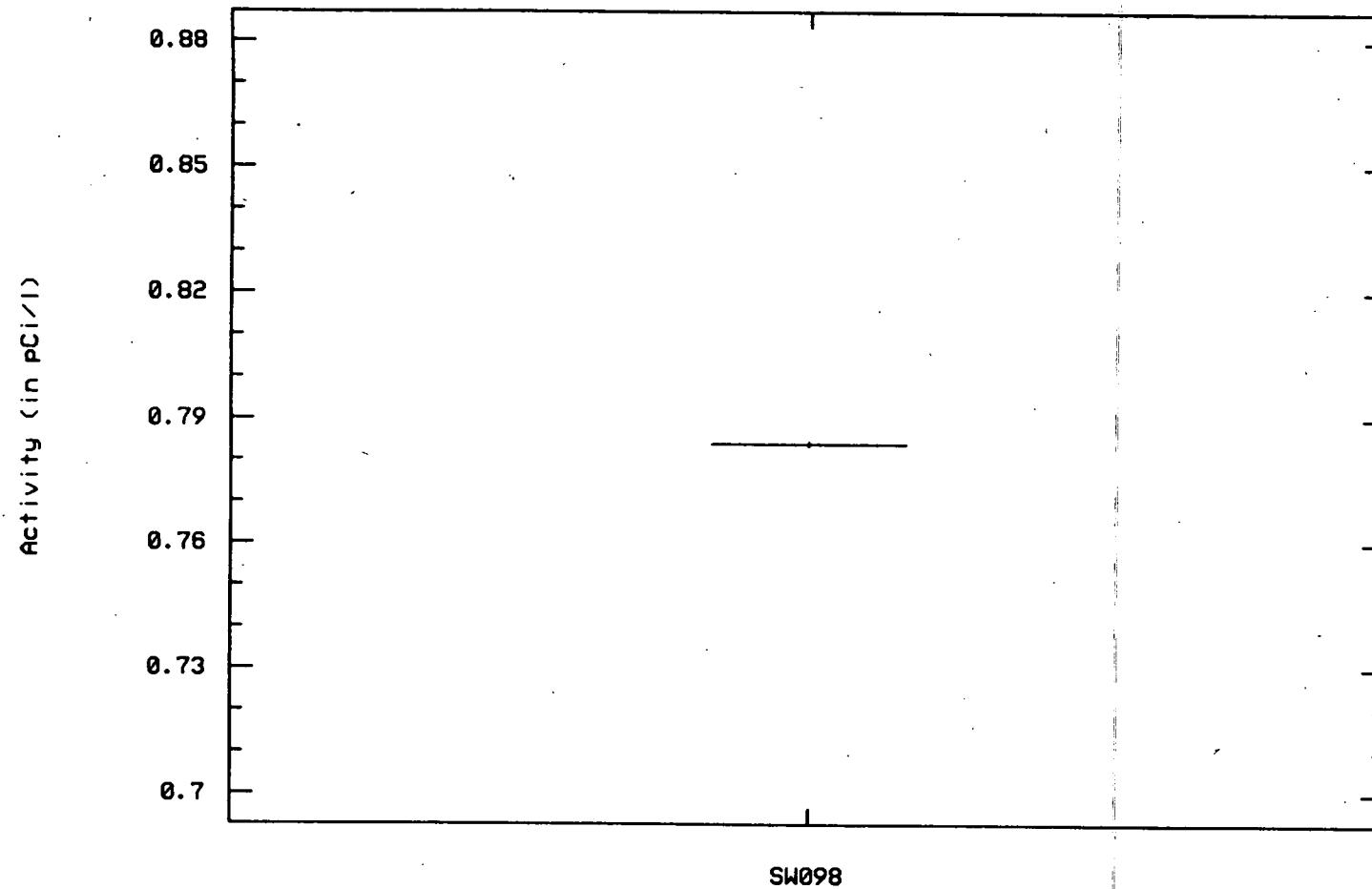
Strontium-89,90 Dissolved: Surface Water
Background vs. OUT SW Stations



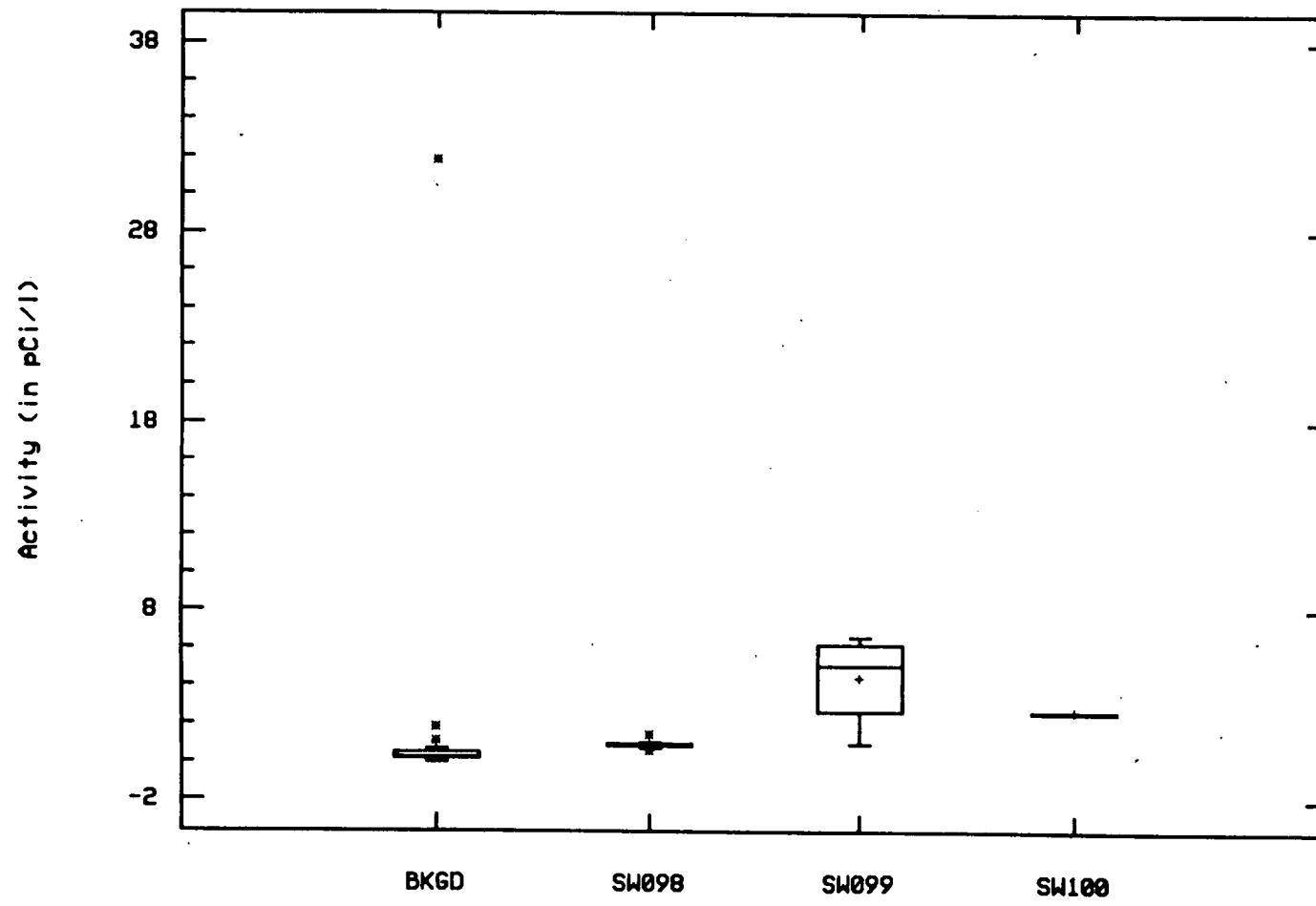
Strontium-90 (Dissolved): Surface Water
Background vs. DU7 SW Stations



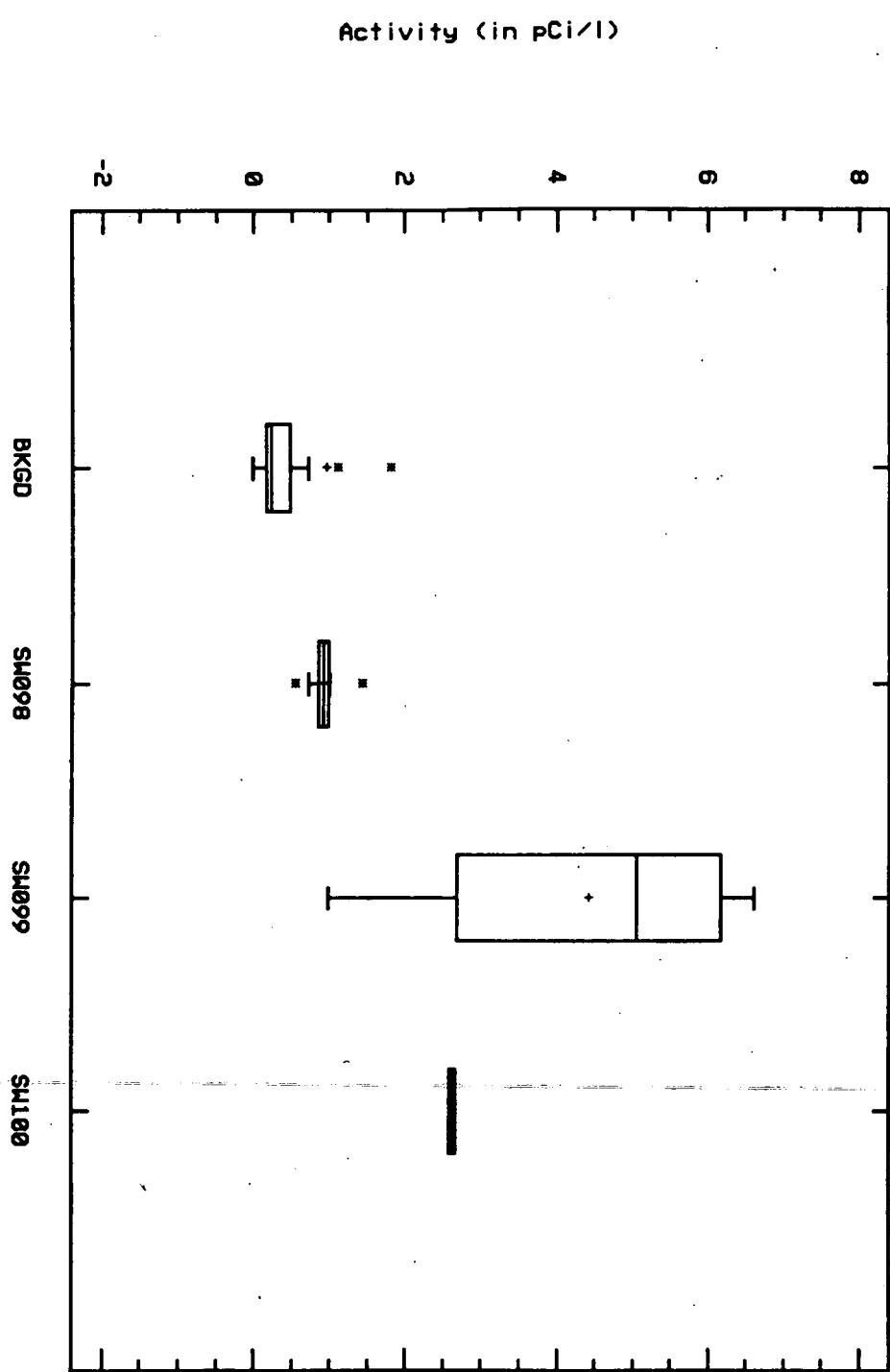
Total Radiocesium: Surface Water
Background vs. OU7 SW Stations



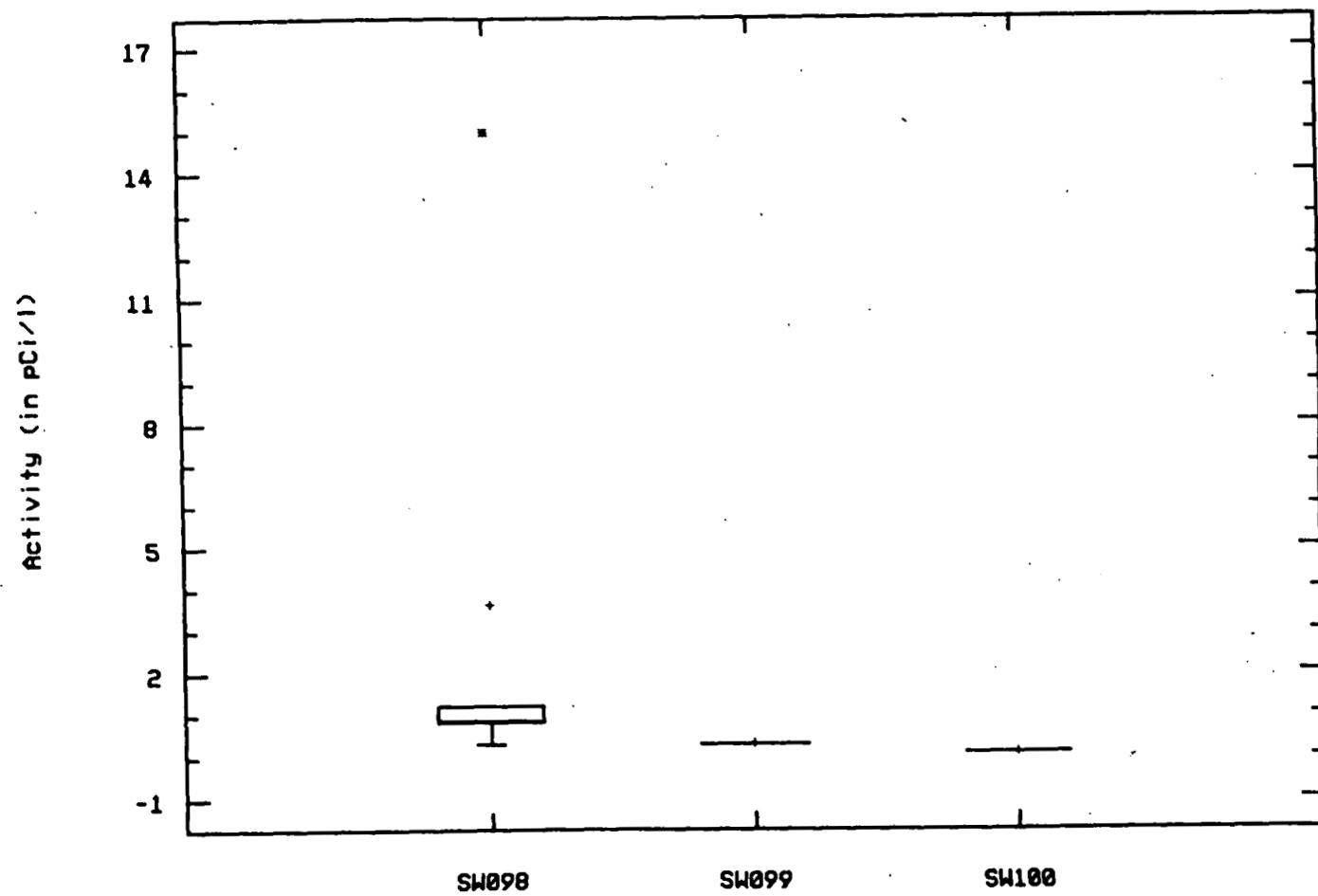
Uranium-233,234 (Diss): Surface Water
Background vs. OU7 SW Stations



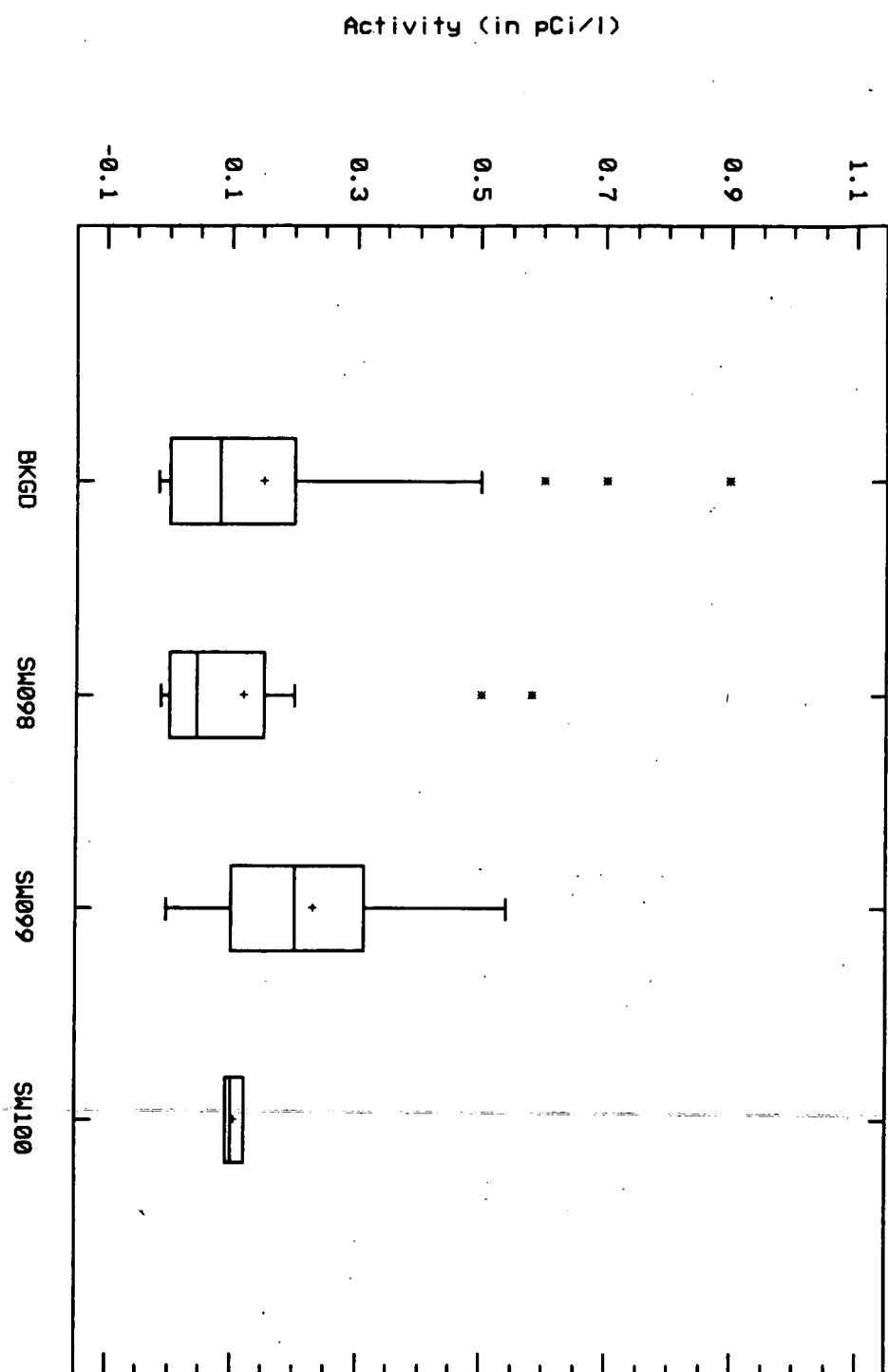
Uranium-233,234 (Diss): Surface Water
Background vs. DJ7 SW Stations



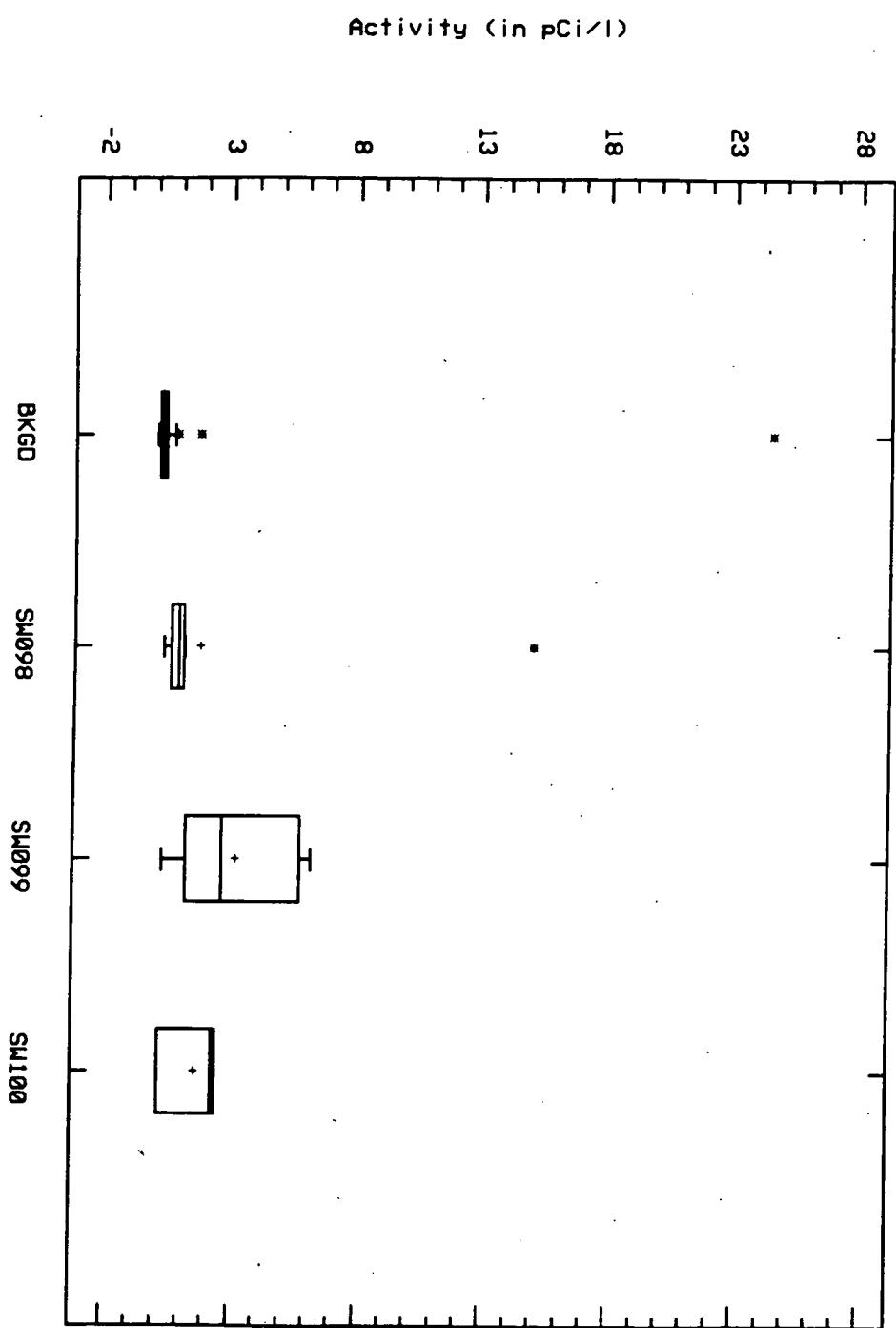
Uranium-234 (Dissolved): Surface Water
Background vs. OU7 SW Stations



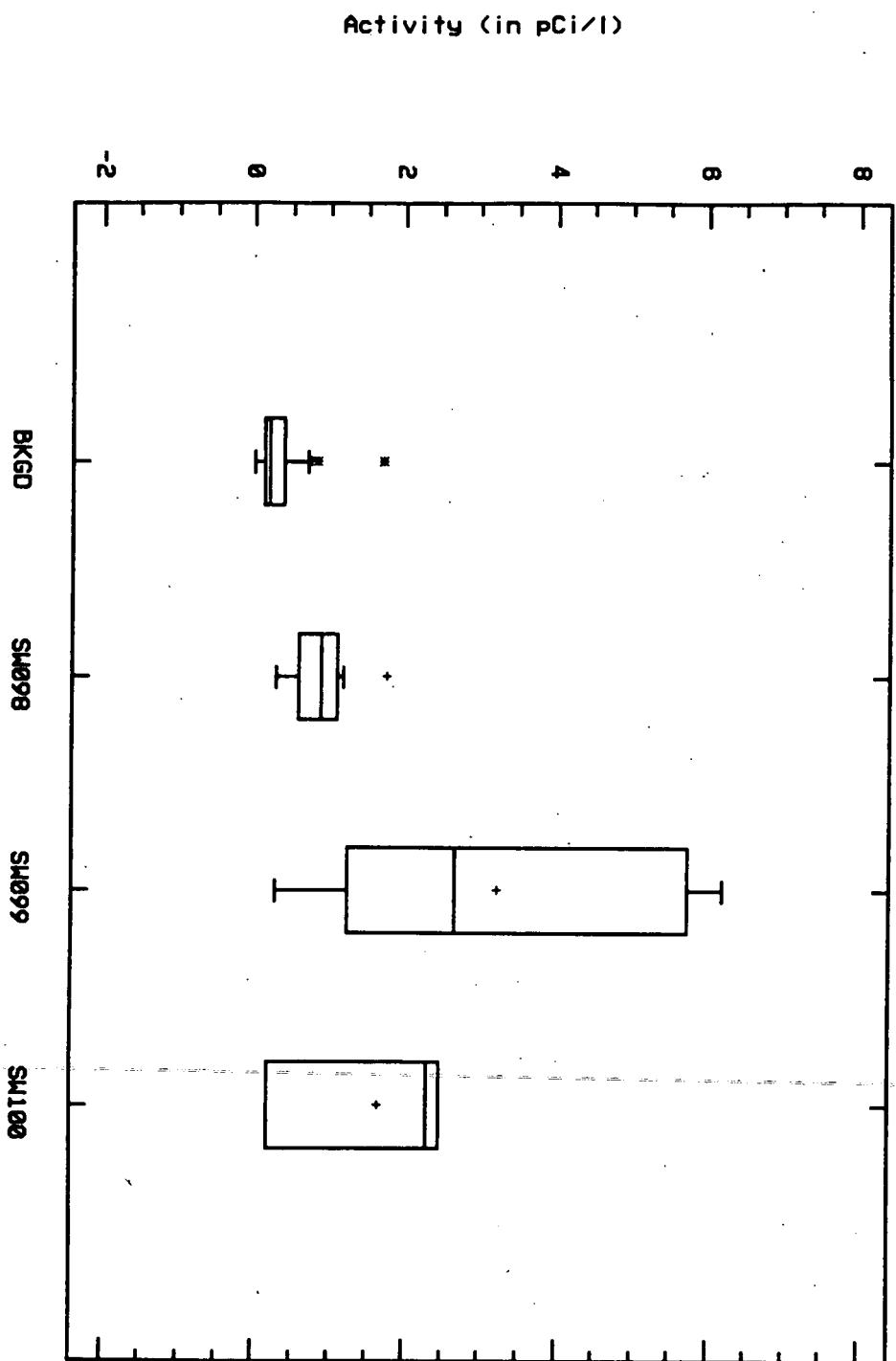
Uranium-235 (Dissolved): Surface Water
Background vs. OUT SW Stations



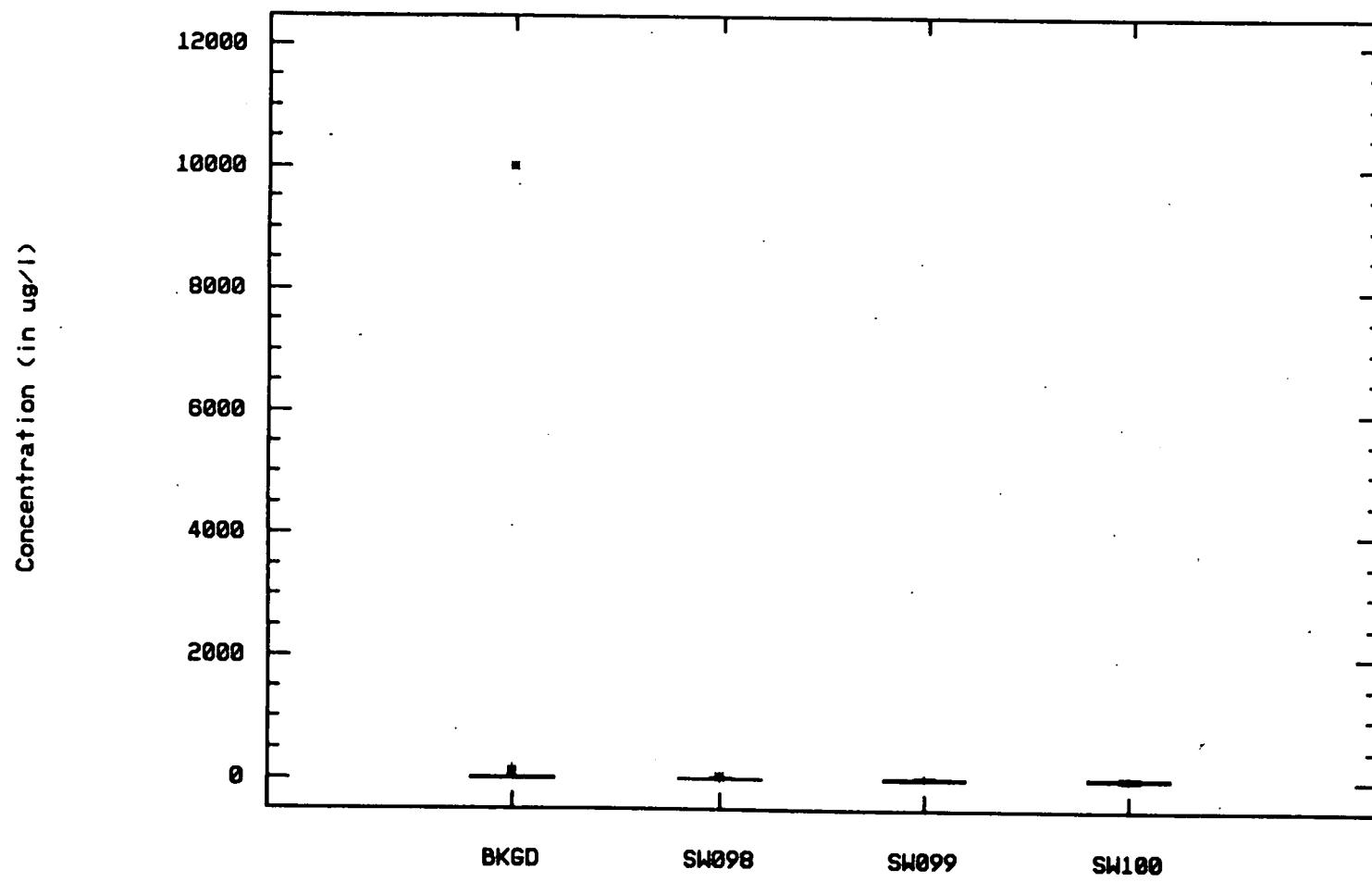
Uranium-238 (Dissolved): Surface Water
Background vs. 0U7 SW Stations



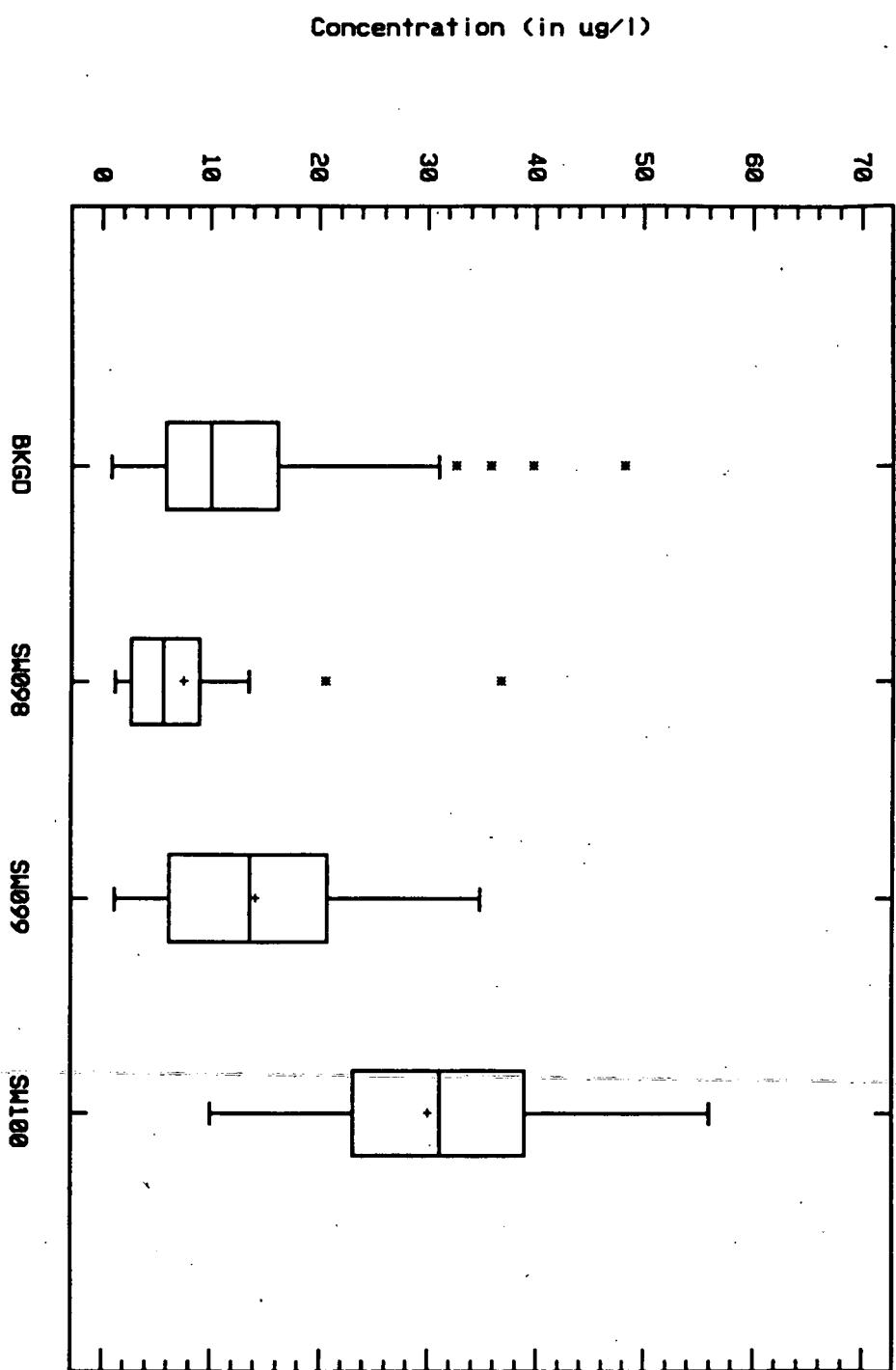
Uranium-238 (Dissolved): Surface Water
Background vs. OUT SW Stations



Zinc (Dissolved): Surface Water
Background vs. OU7 SW Stations



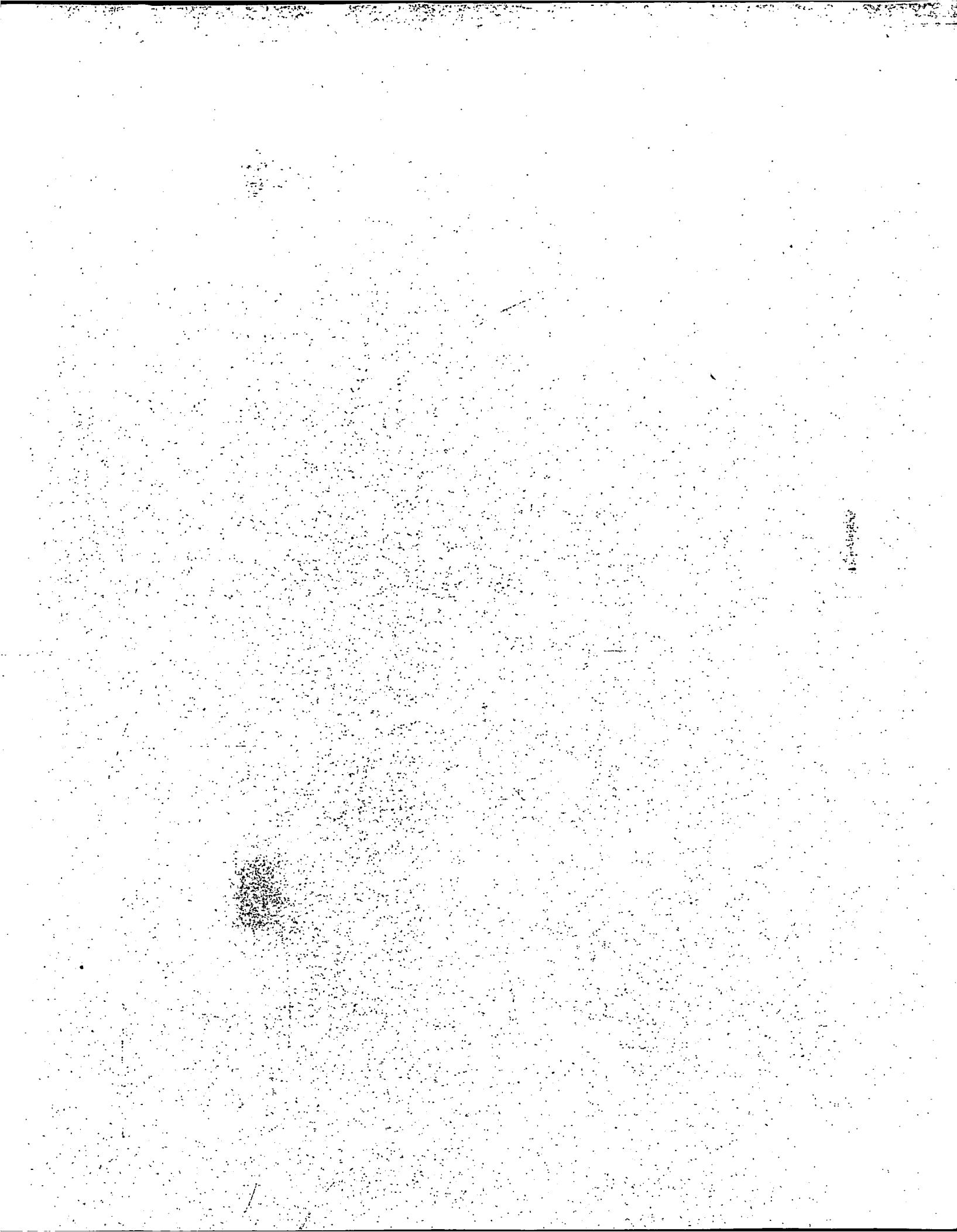
Zinc (Dissolved): Surface Water
Background vs. DJ7 SW Stations



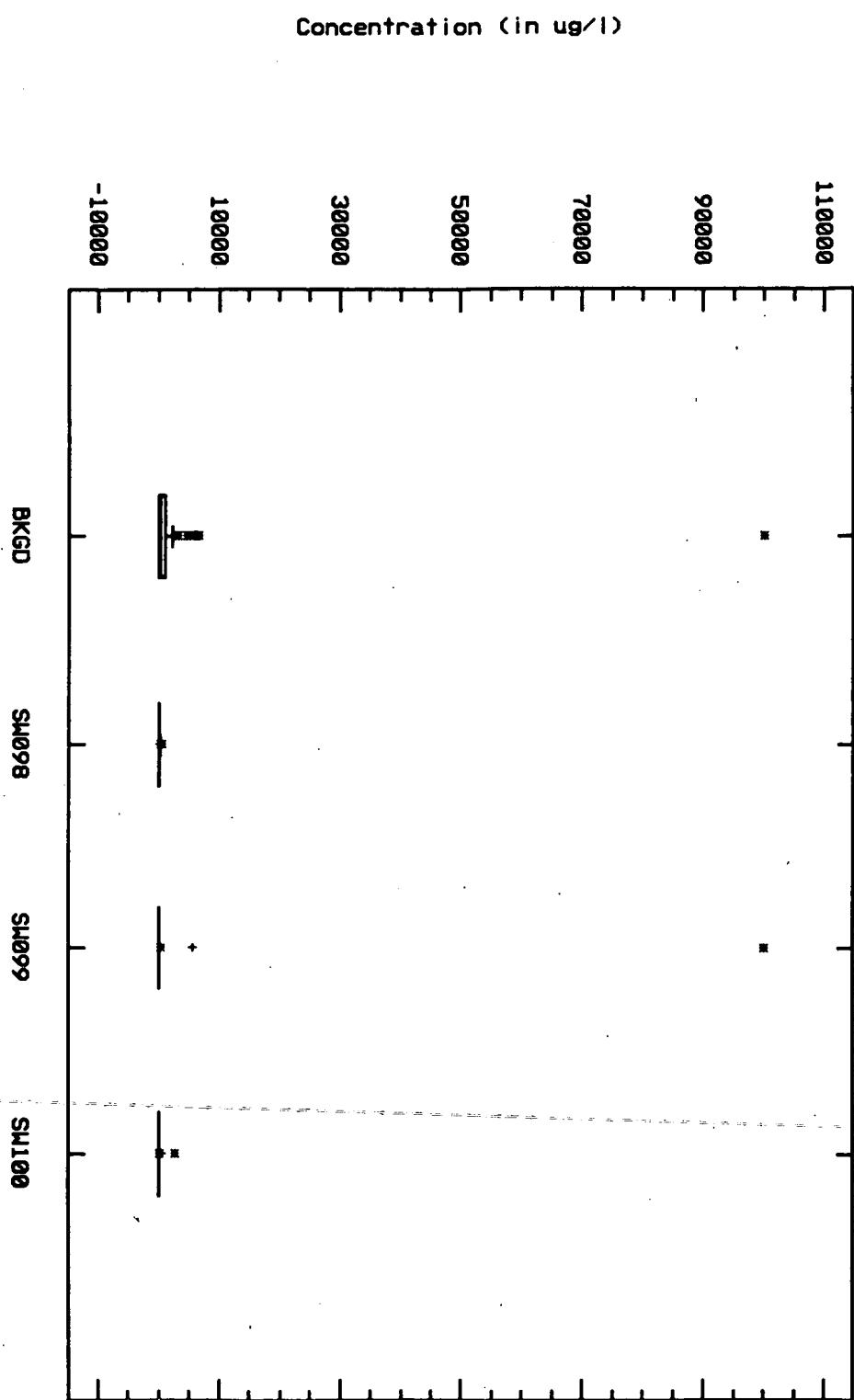
Surface Water

(Total)

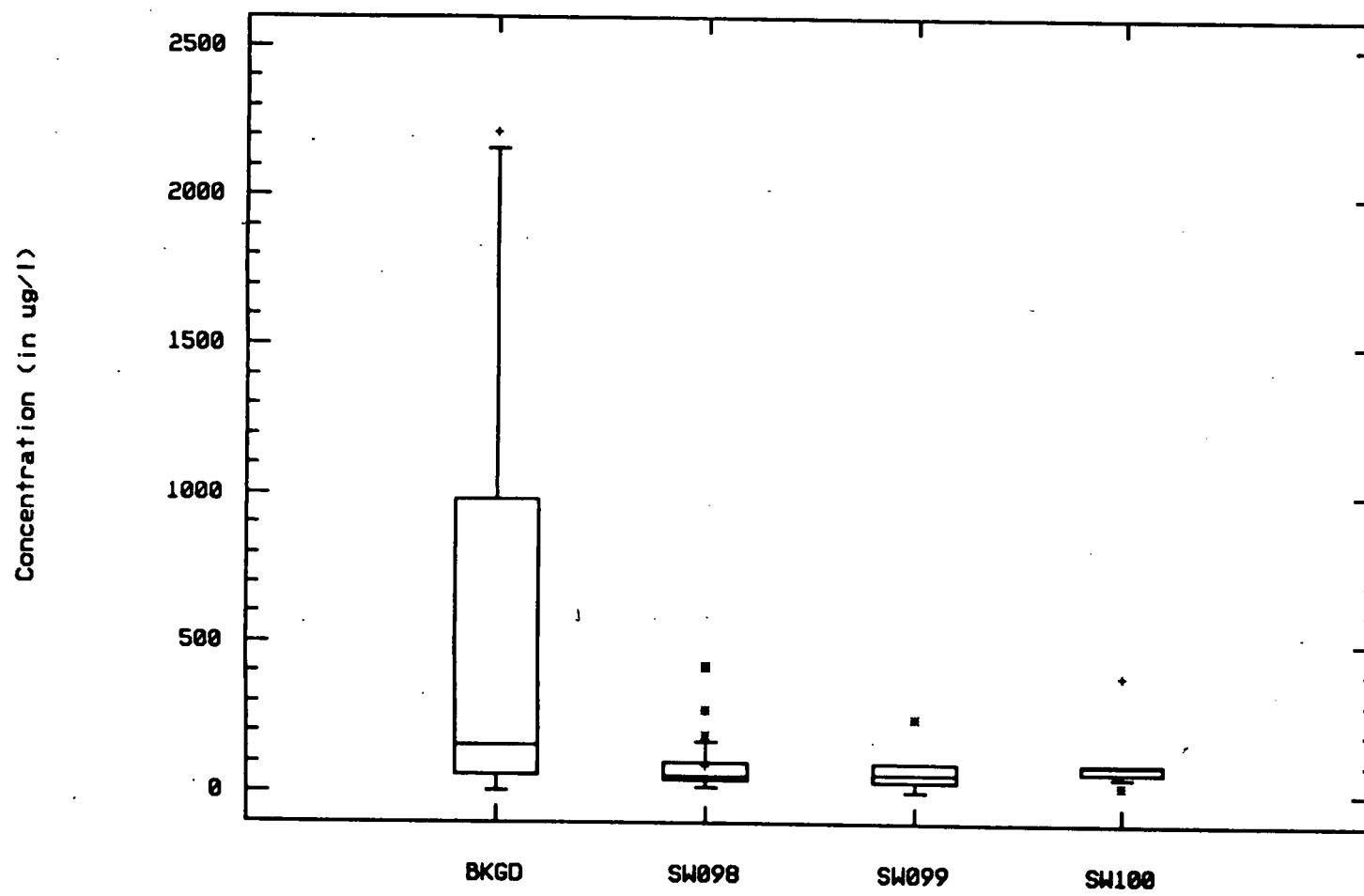
Background vs. OU 7



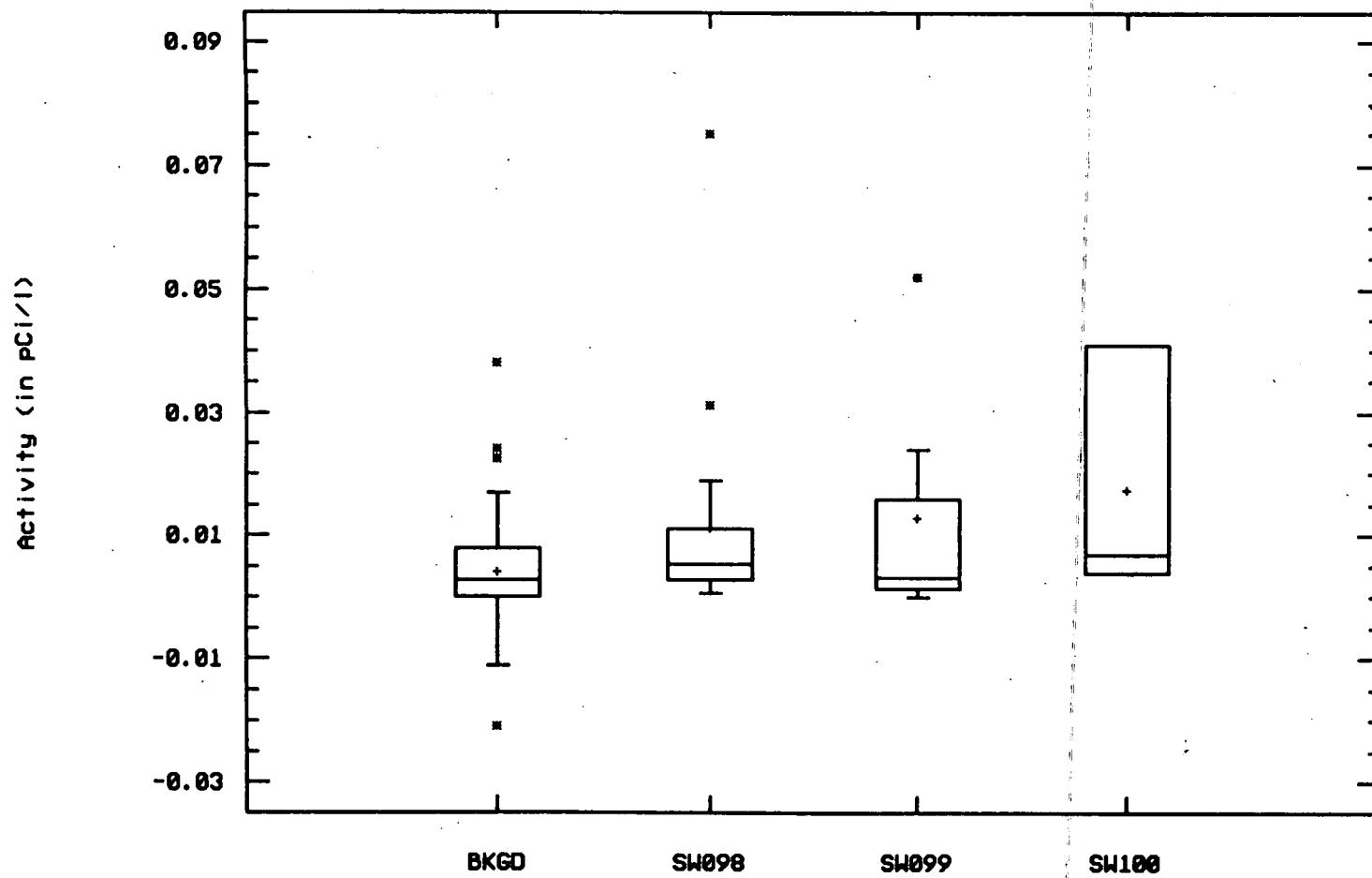
Aluminum (Total): Surface Water
Background vs. 007 SW Station



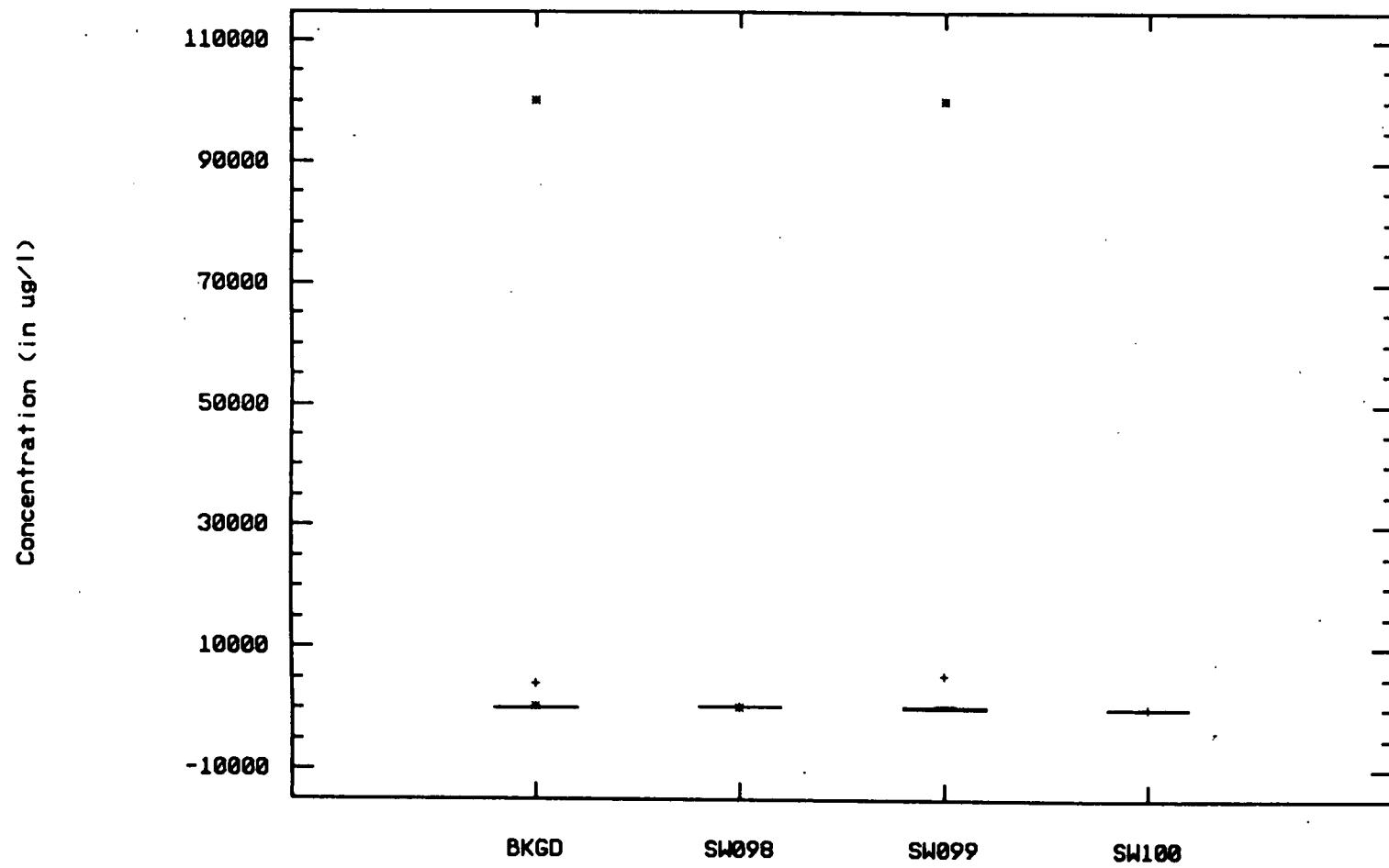
Aluminum (Total): Surface Water
Background vs. OU7 SW Station



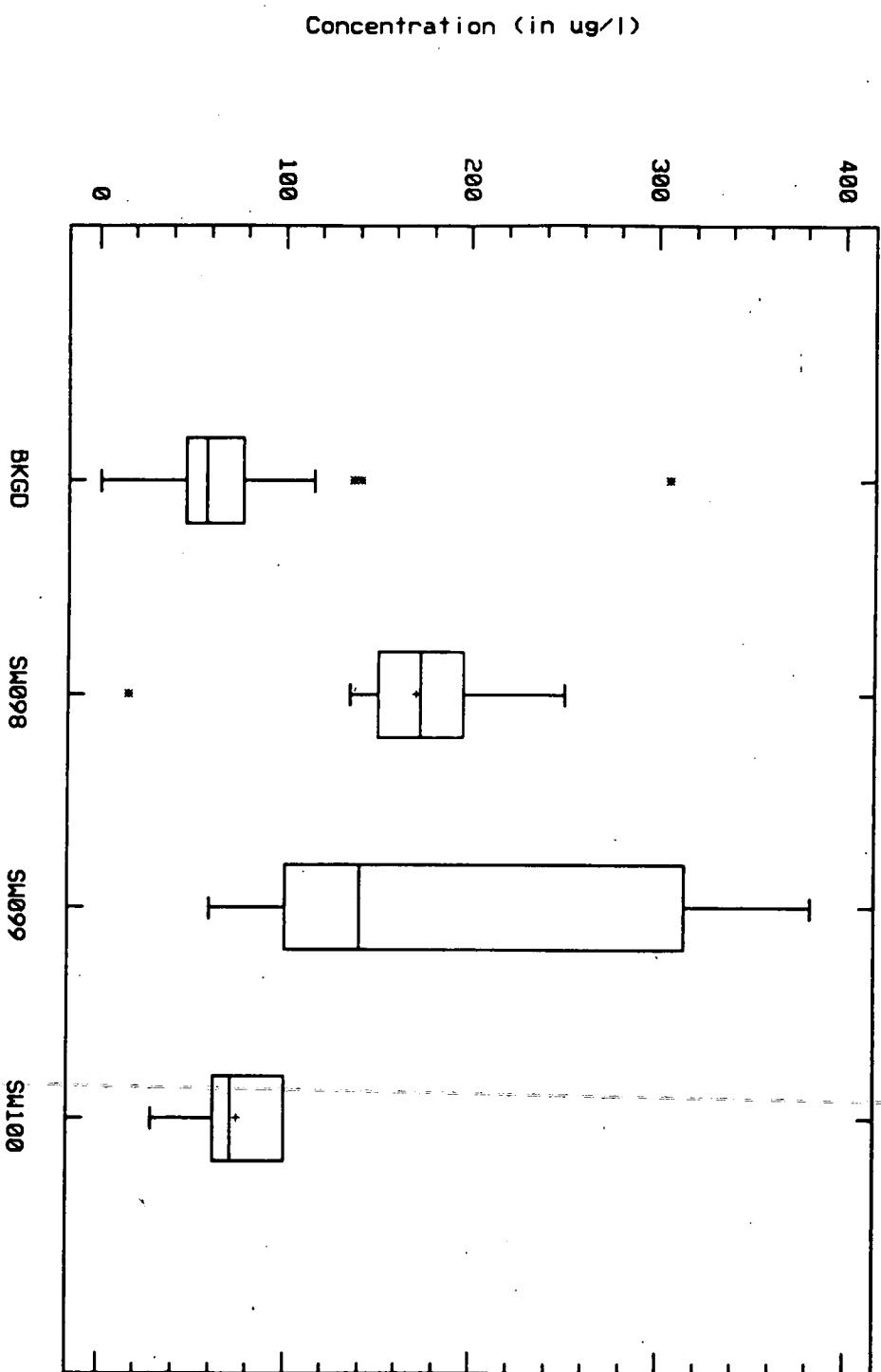
Americium-241 (Total): Surface Water
Background vs. 0U7 SW Stations



Barium (Total): Surface Water
Background vs. OU7 SW Station

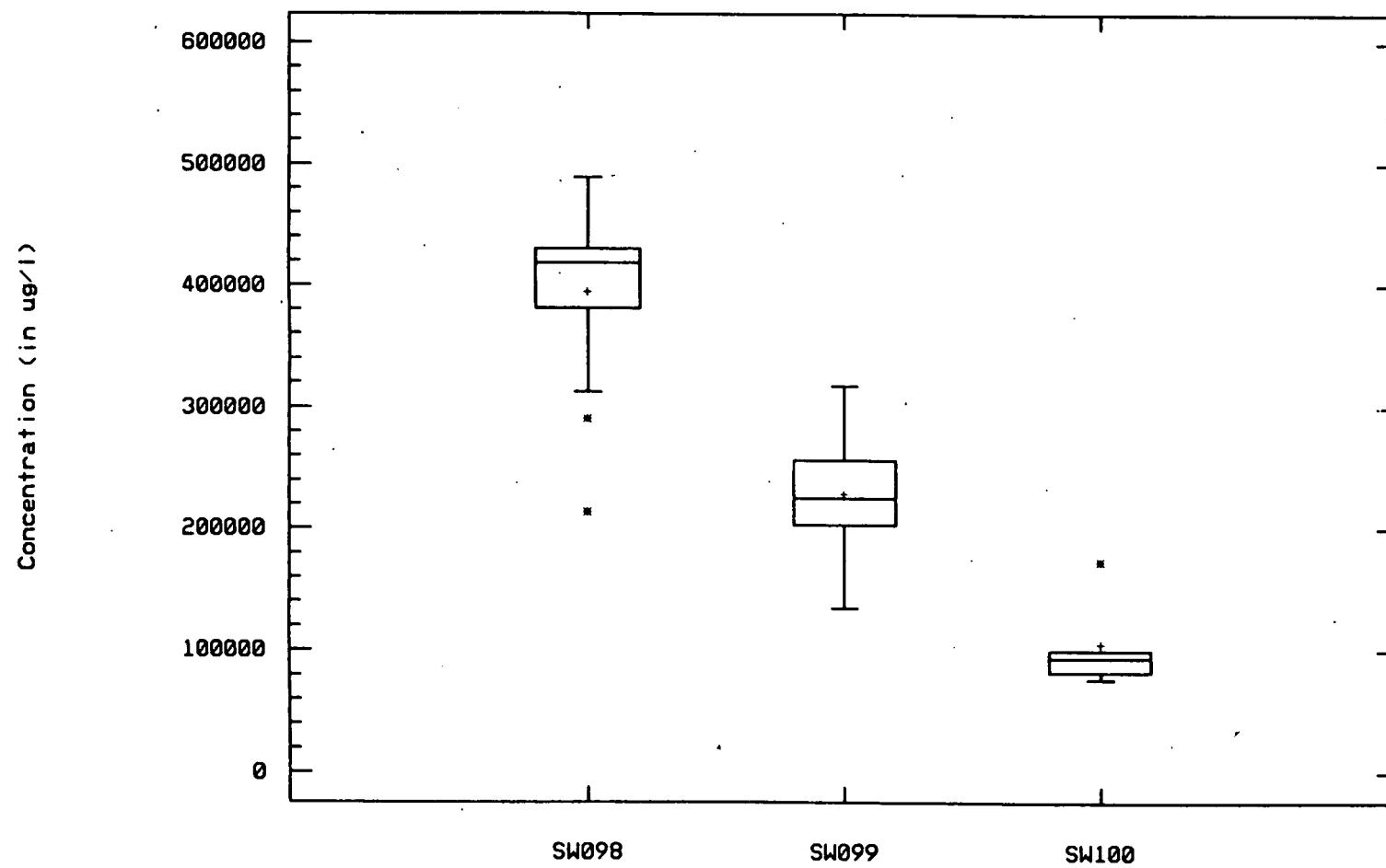


Barium (Total): Surface Water
Background vs. OUT SW Station

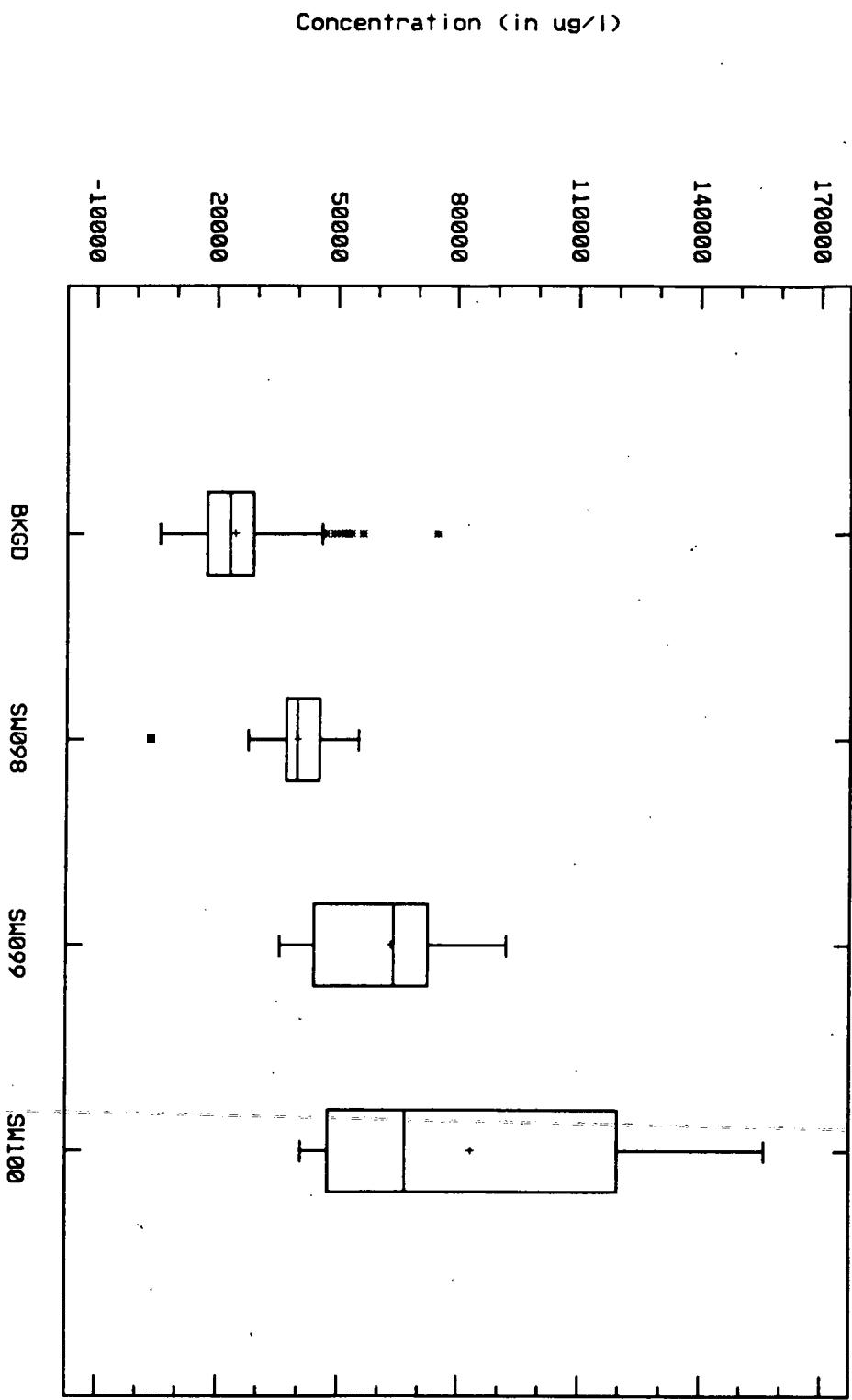


Bicarb. as CACO₃ (Total): Surface Water

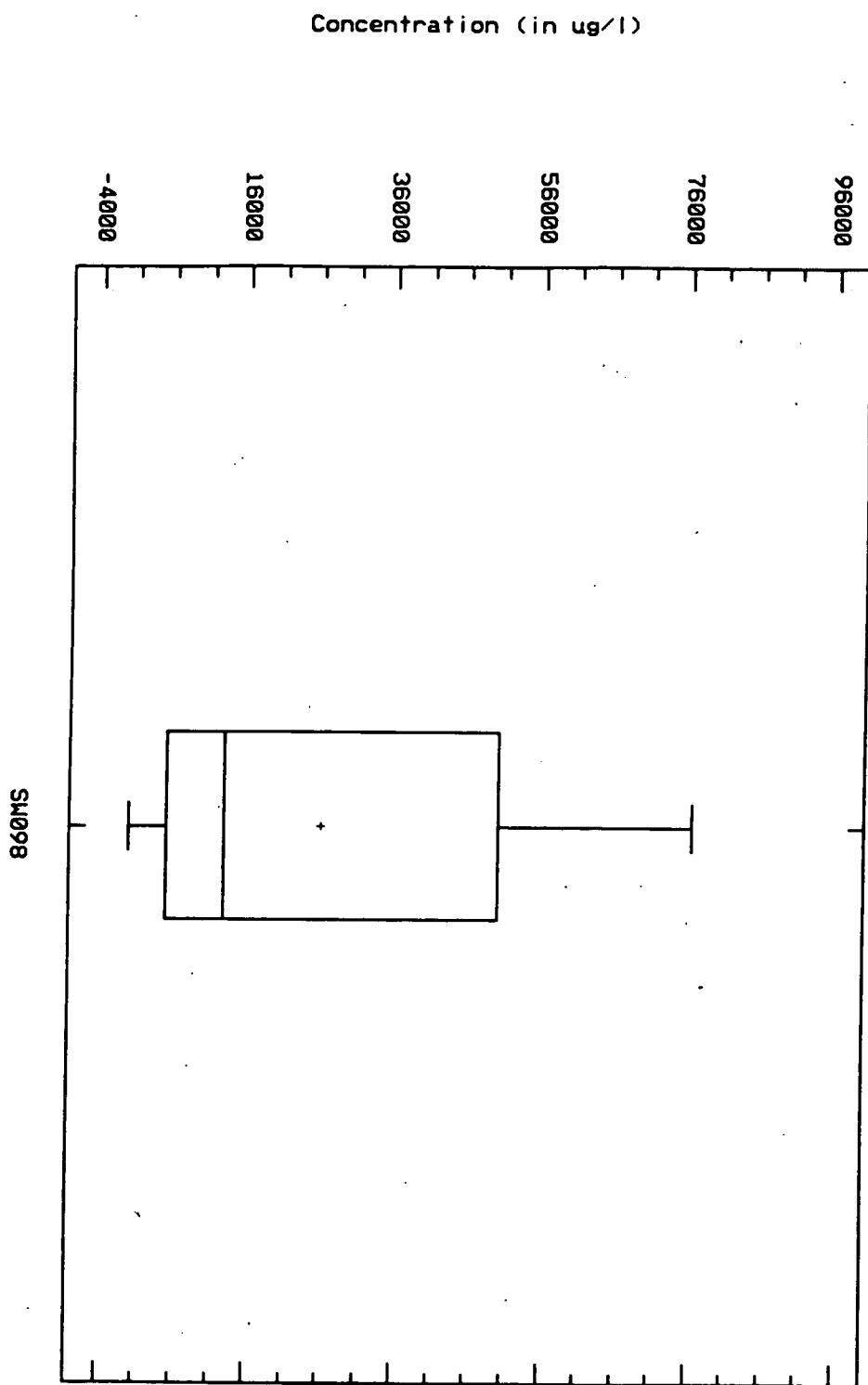
Background vs. 0U7 SW Station



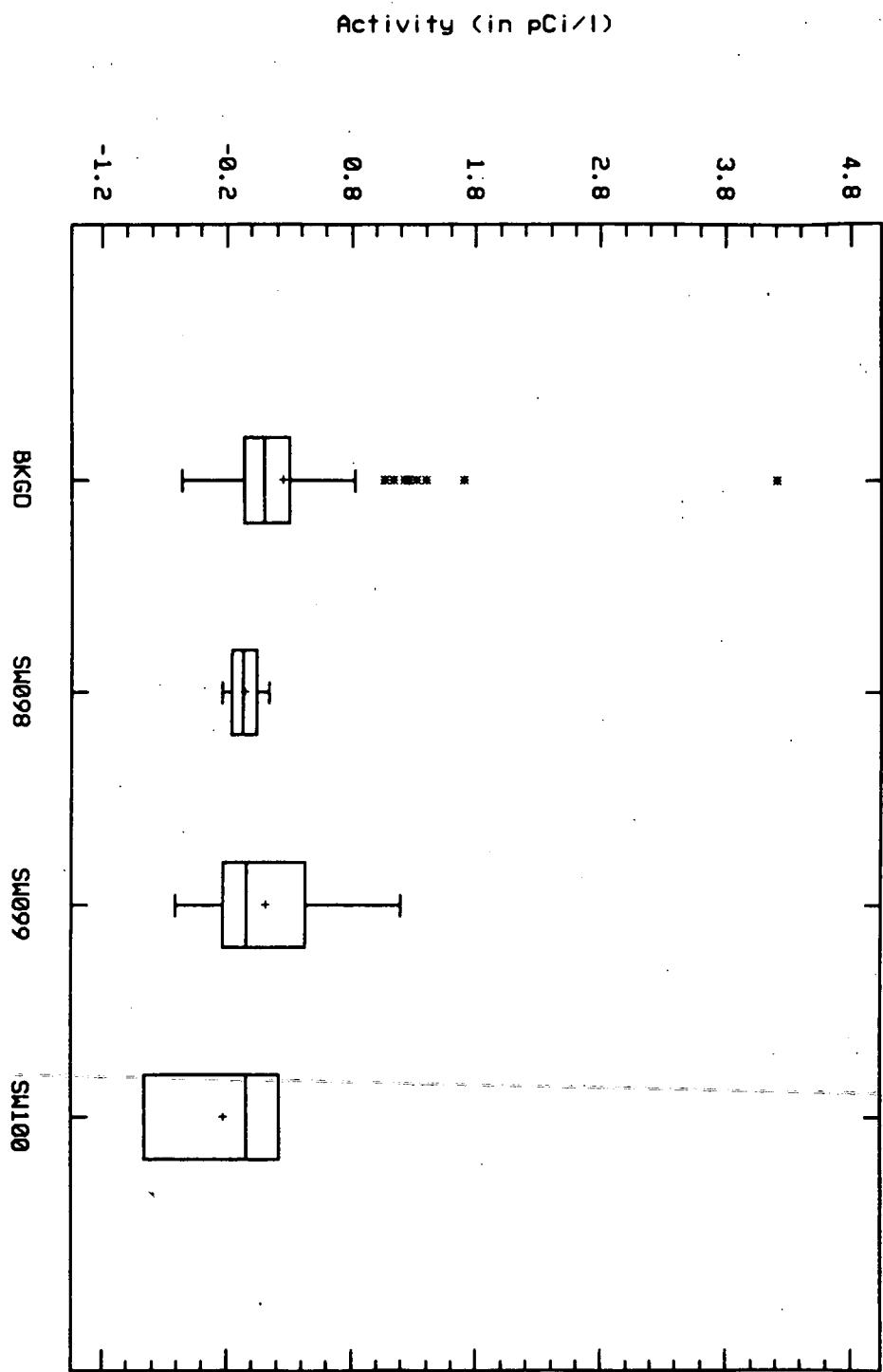
Calcium (Total): Surface Water
Background vs. OUT SW Station



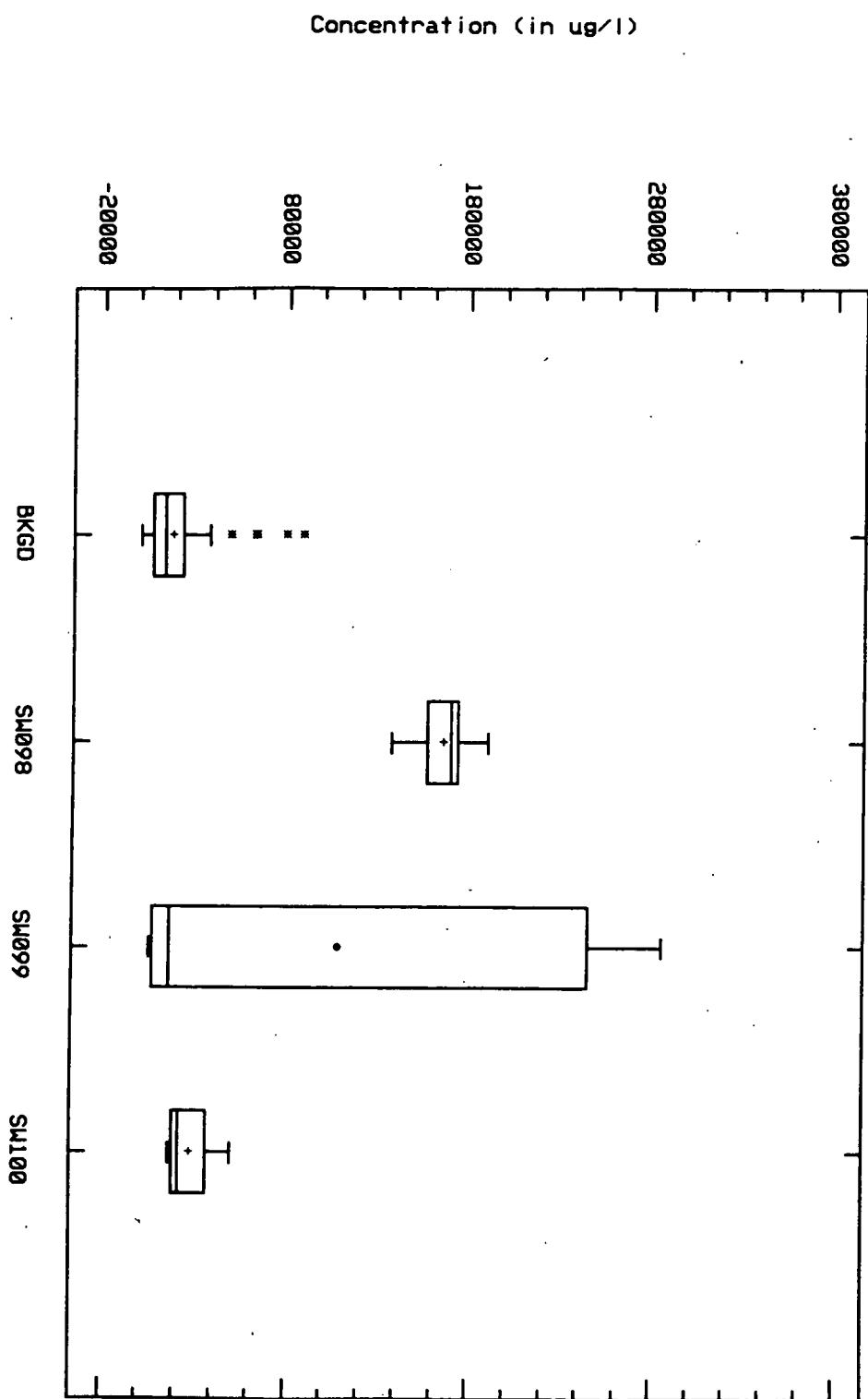
Carbonate as CaCO_3 (Total): Surface Water
Background vs. 0U7 SW Station



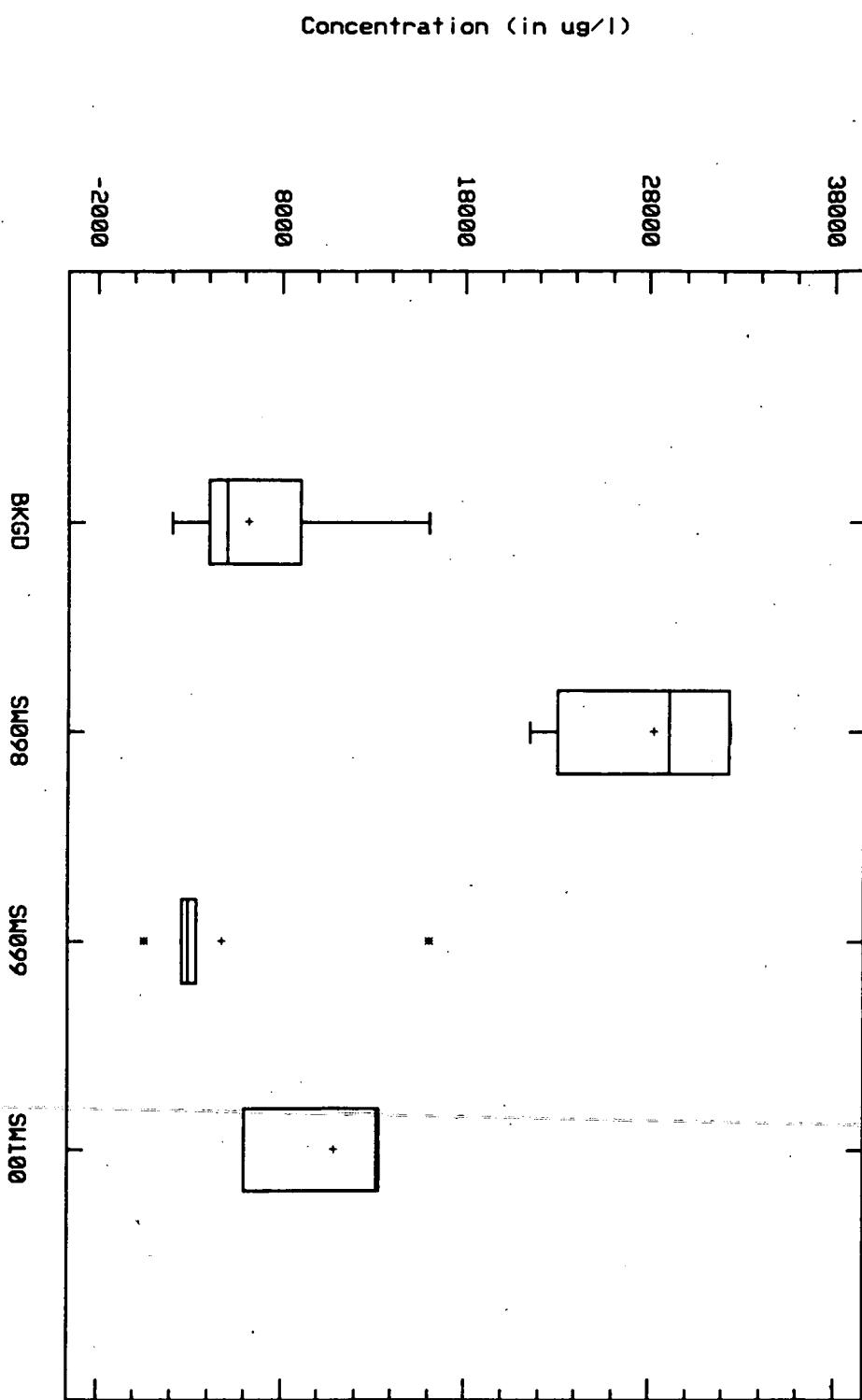
Cesium-137 (Total): Surface Water
Background vs. OU7 SW Stations



Chloride (Total): Surface Water
Background vs. OUT SW Station

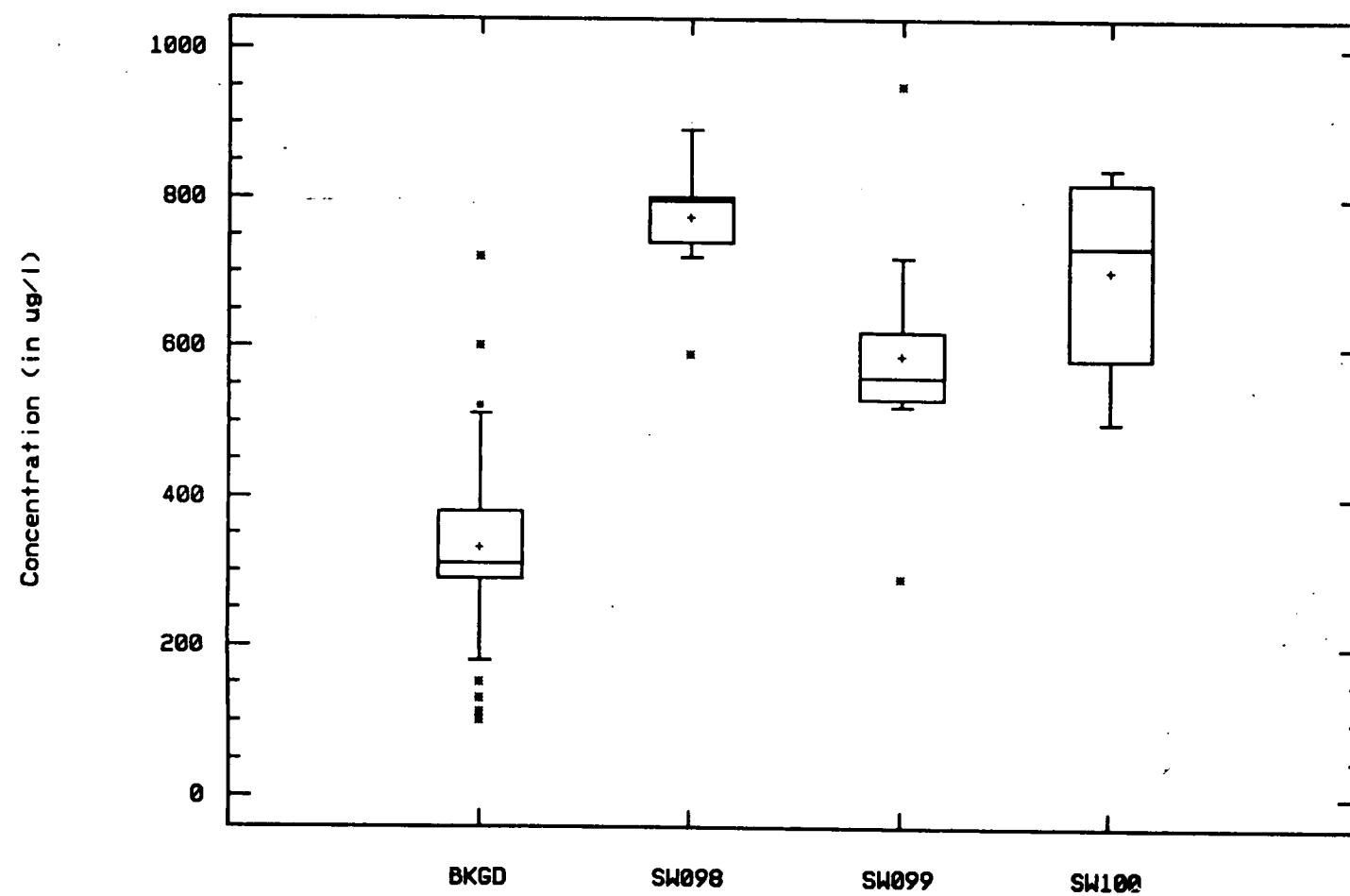


Dis. Organic Carbon(Total):Surface Water
Background vs. 0U7 SW Station

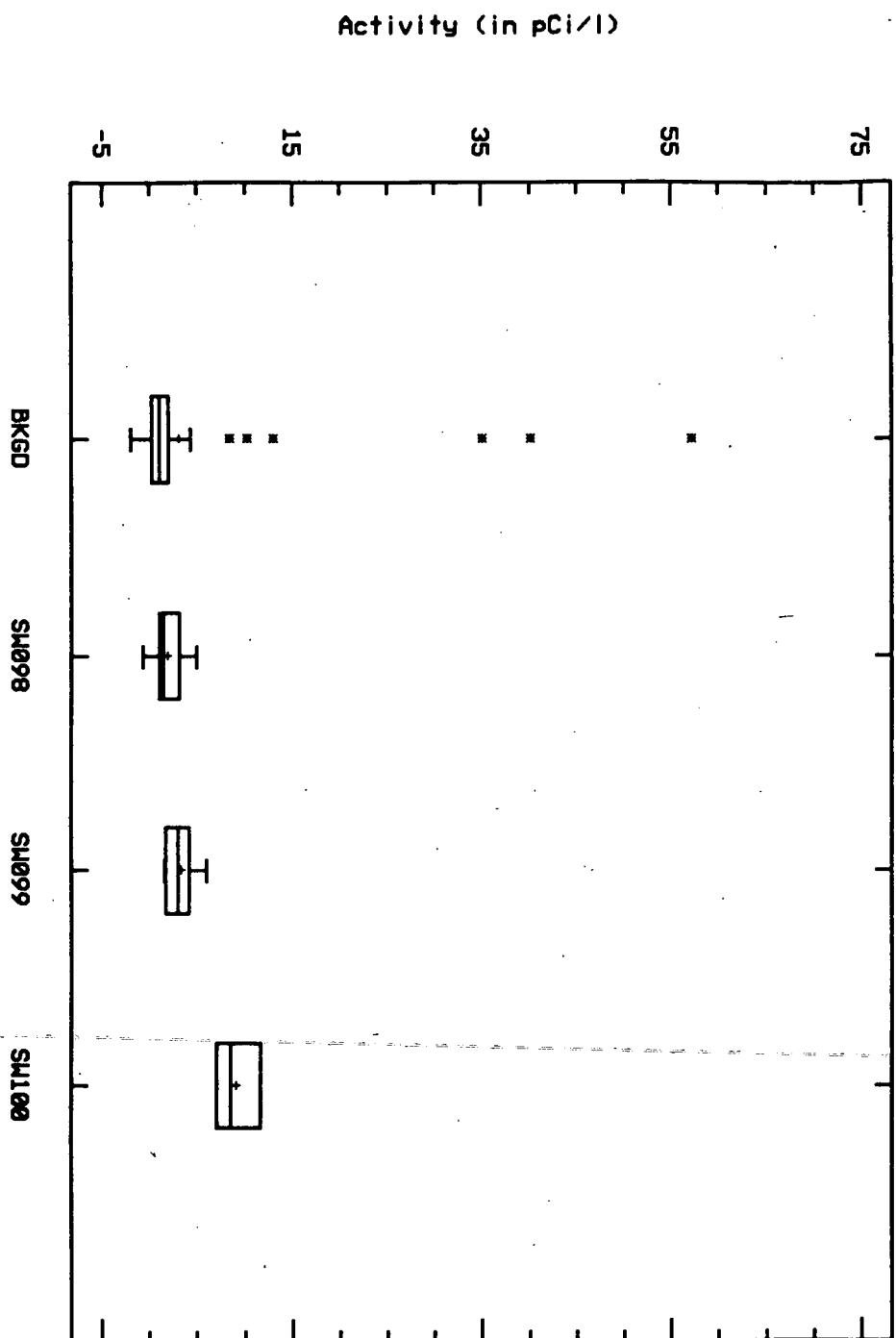


Fluoride (Total): Surface Water

Background vs. OU7 SW Station

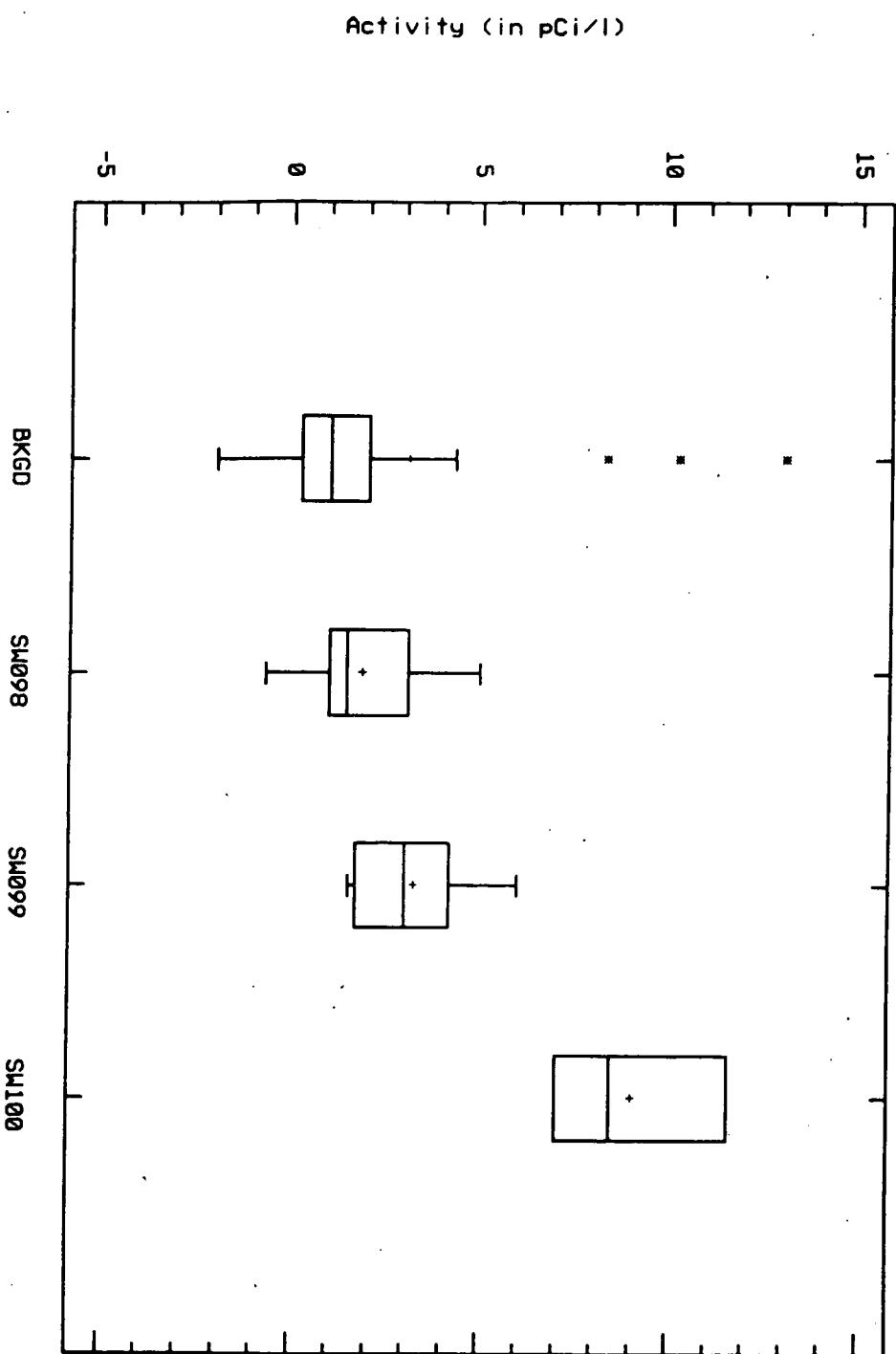


Gross Alpha (Total): Surface Water
Background vs. OUT SW Stations

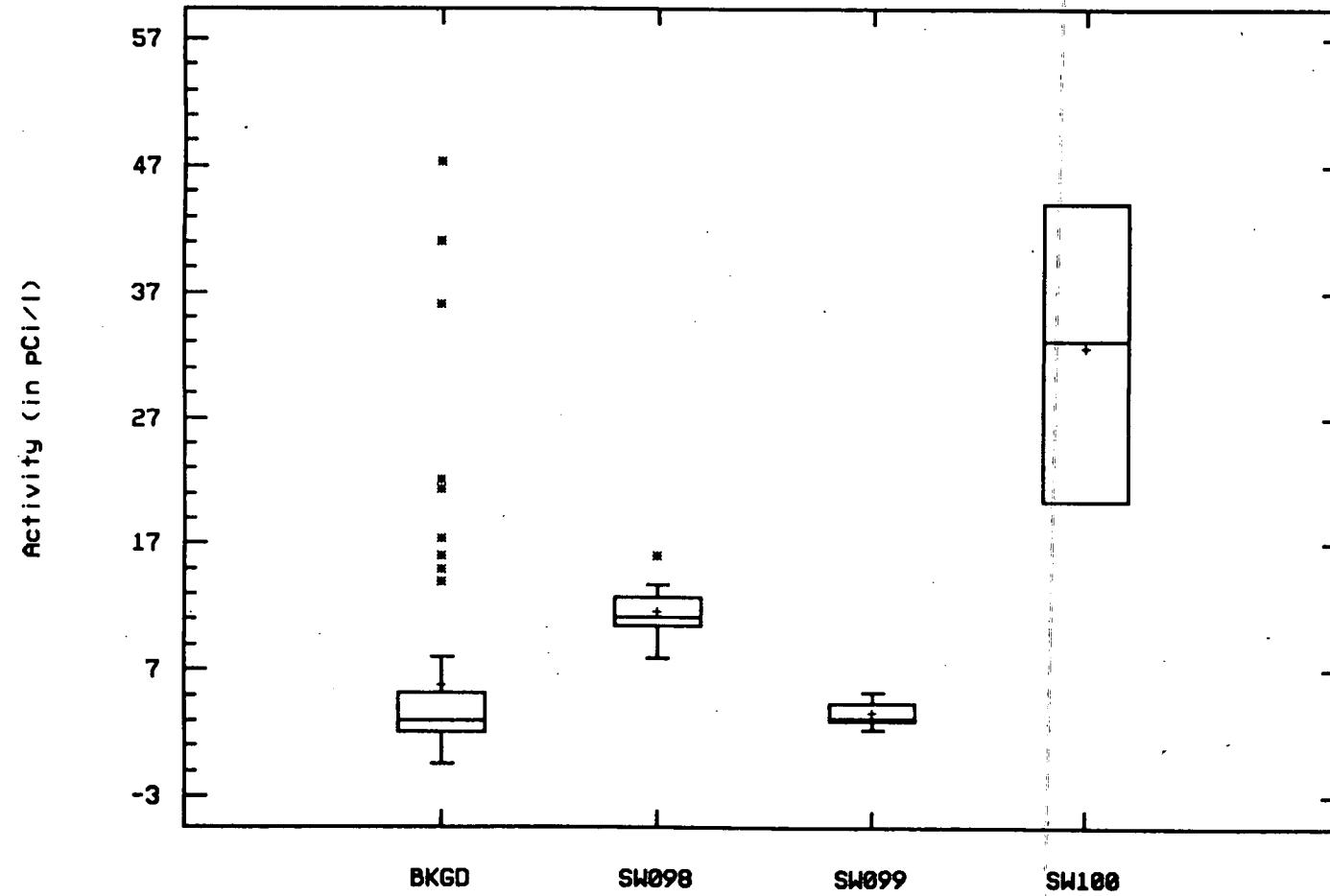


Gross Alpha (Total): Surface Water

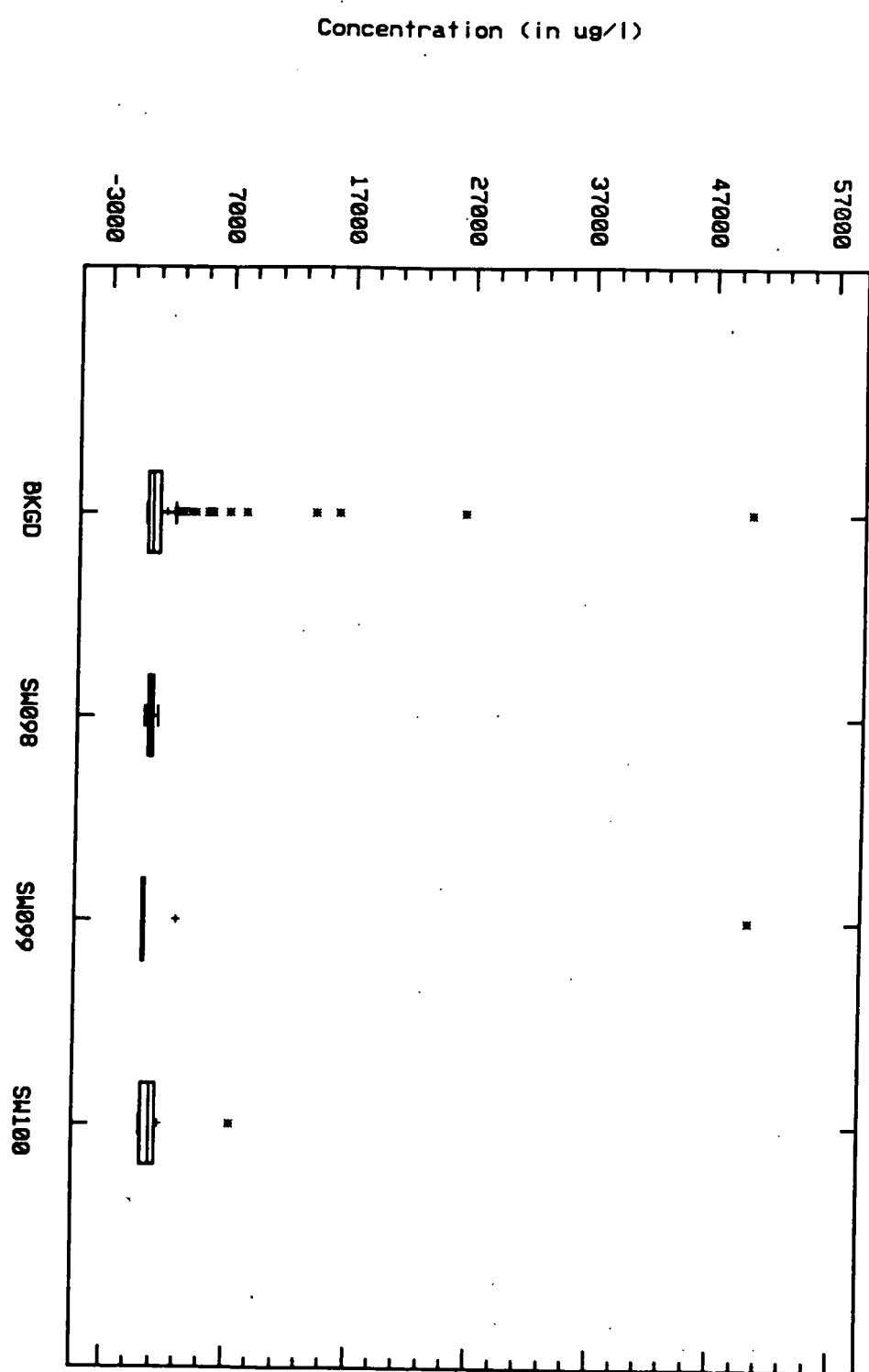
Background vs. OUT SW Stations



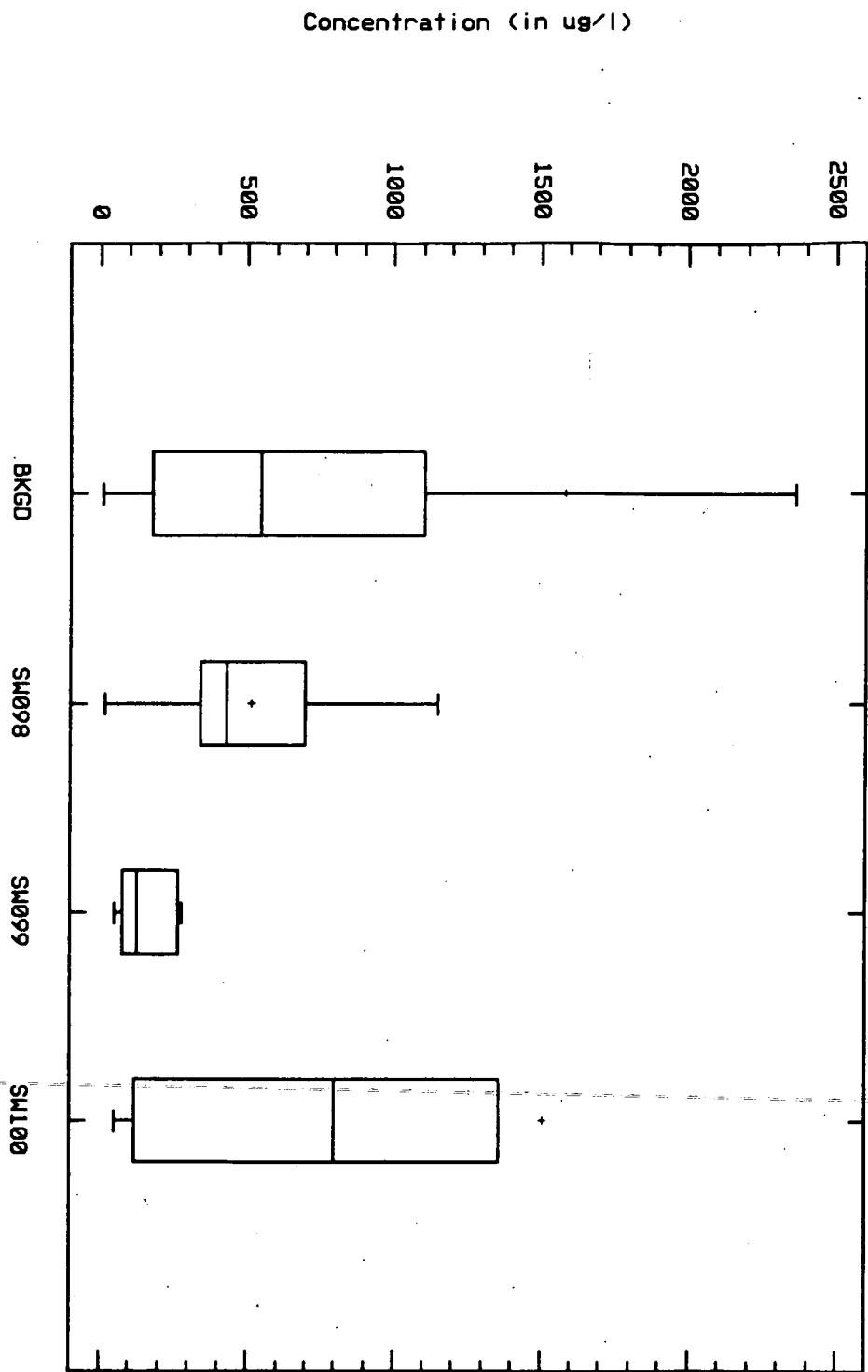
Gross Beta (Total): Surface Water
Background vs. OU7 SW Stations



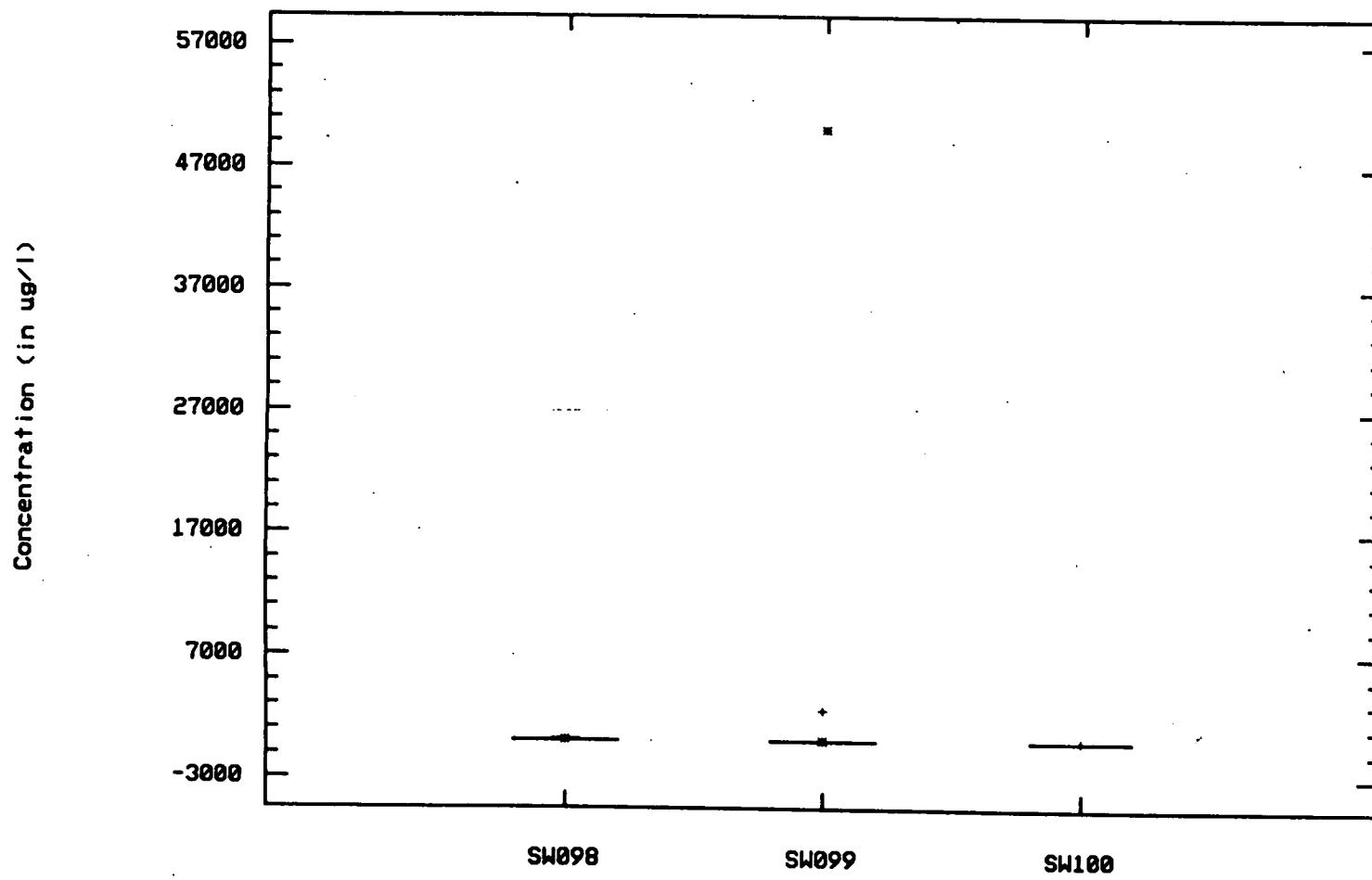
Iron (Total): Surface Water
Background vs. OUT SW Station



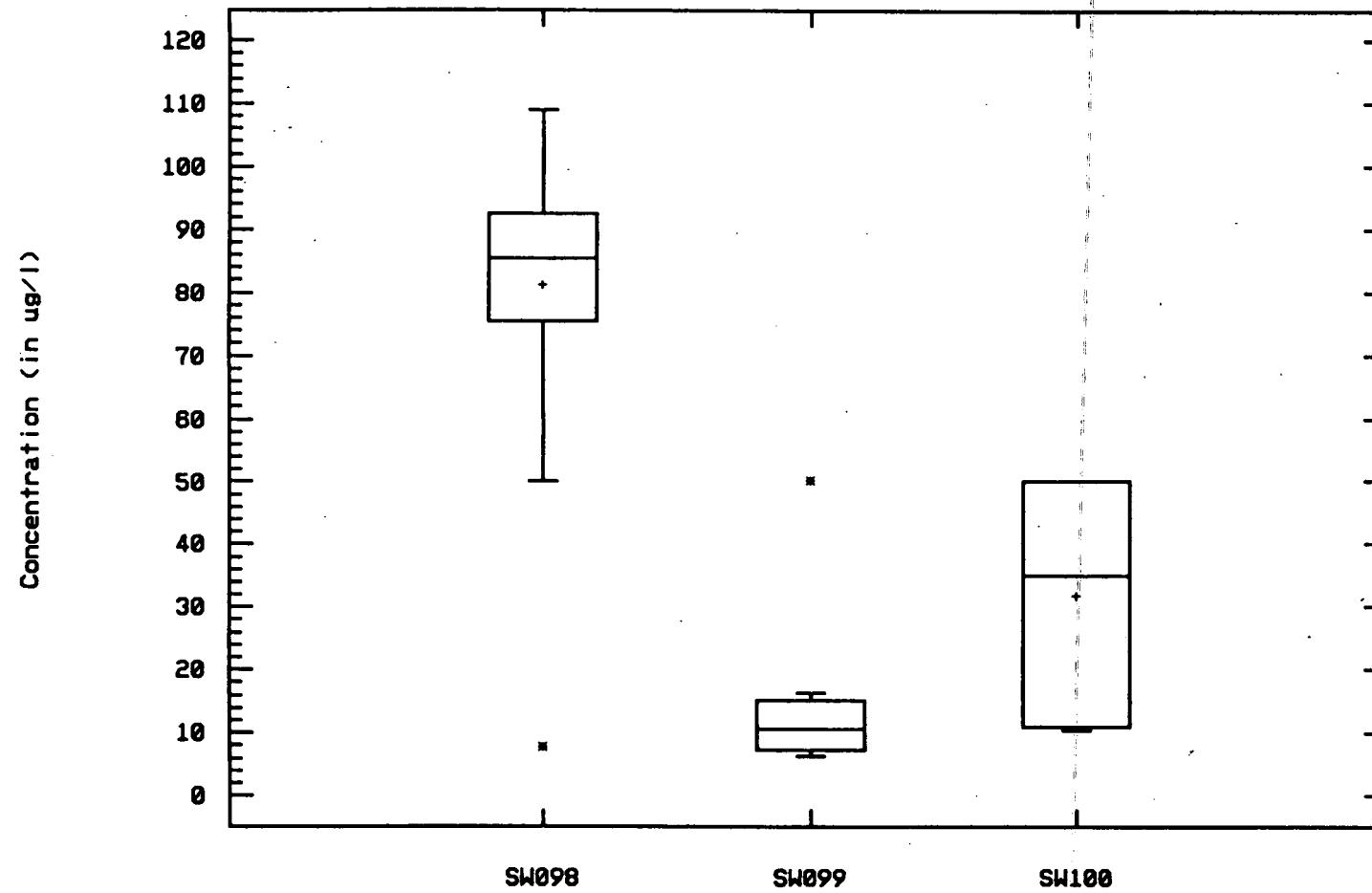
Iron (Total): Surface Water
Background vs. OUT SW Station



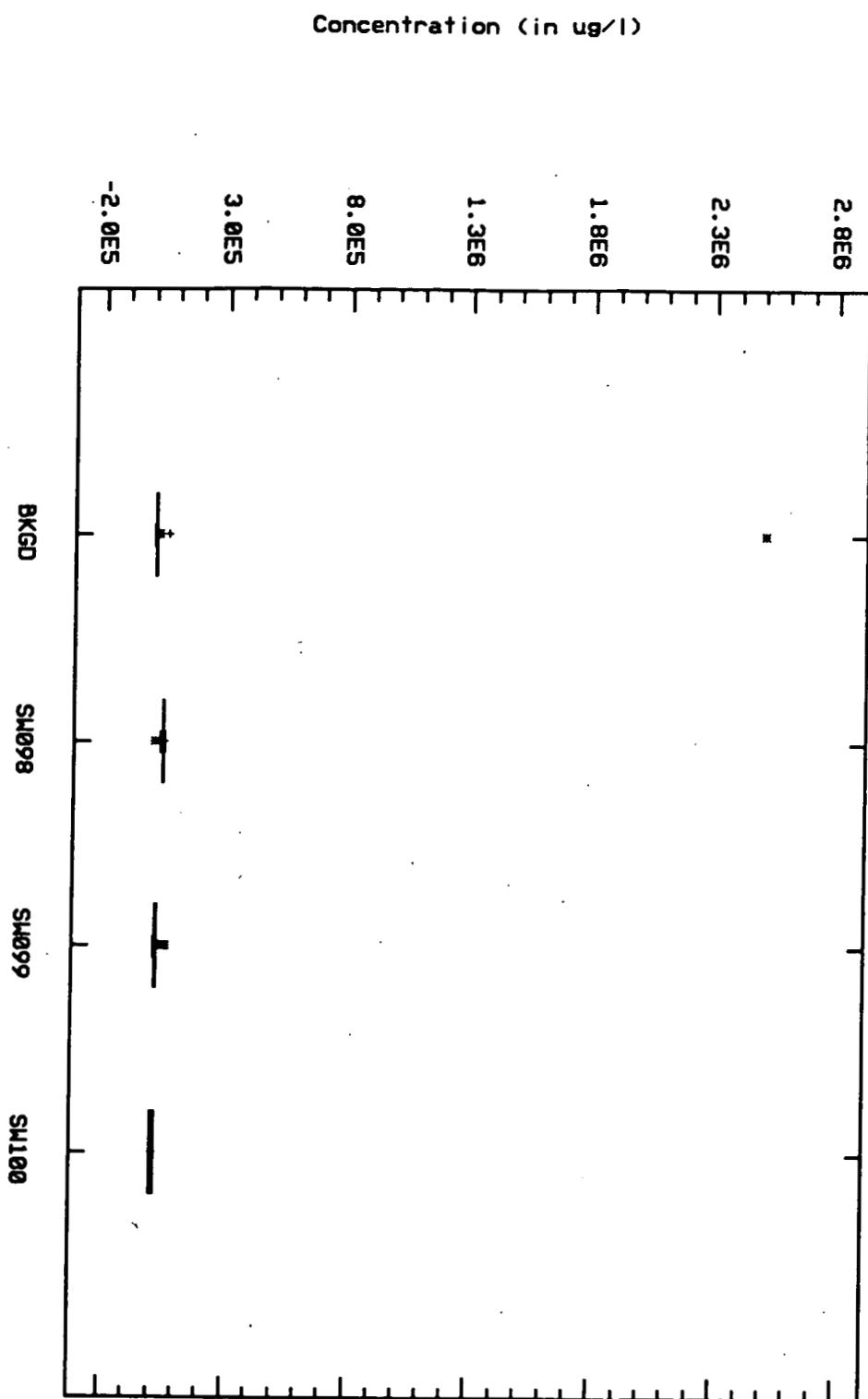
Lithium (Total): Surface Water
Background vs. OU7 SW Station



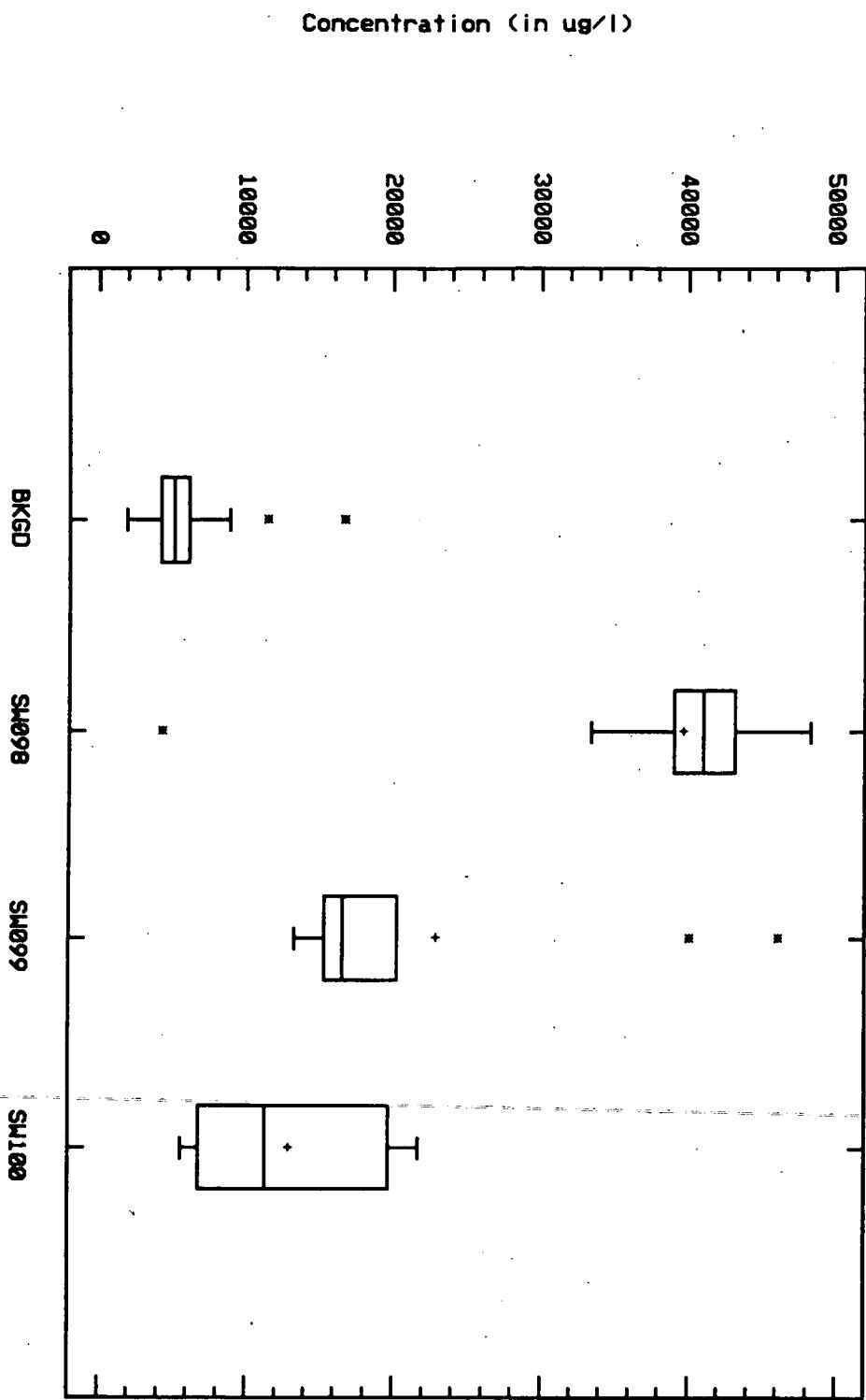
Lithium (Total): Surface Water
Background vs. OU7 SW Station



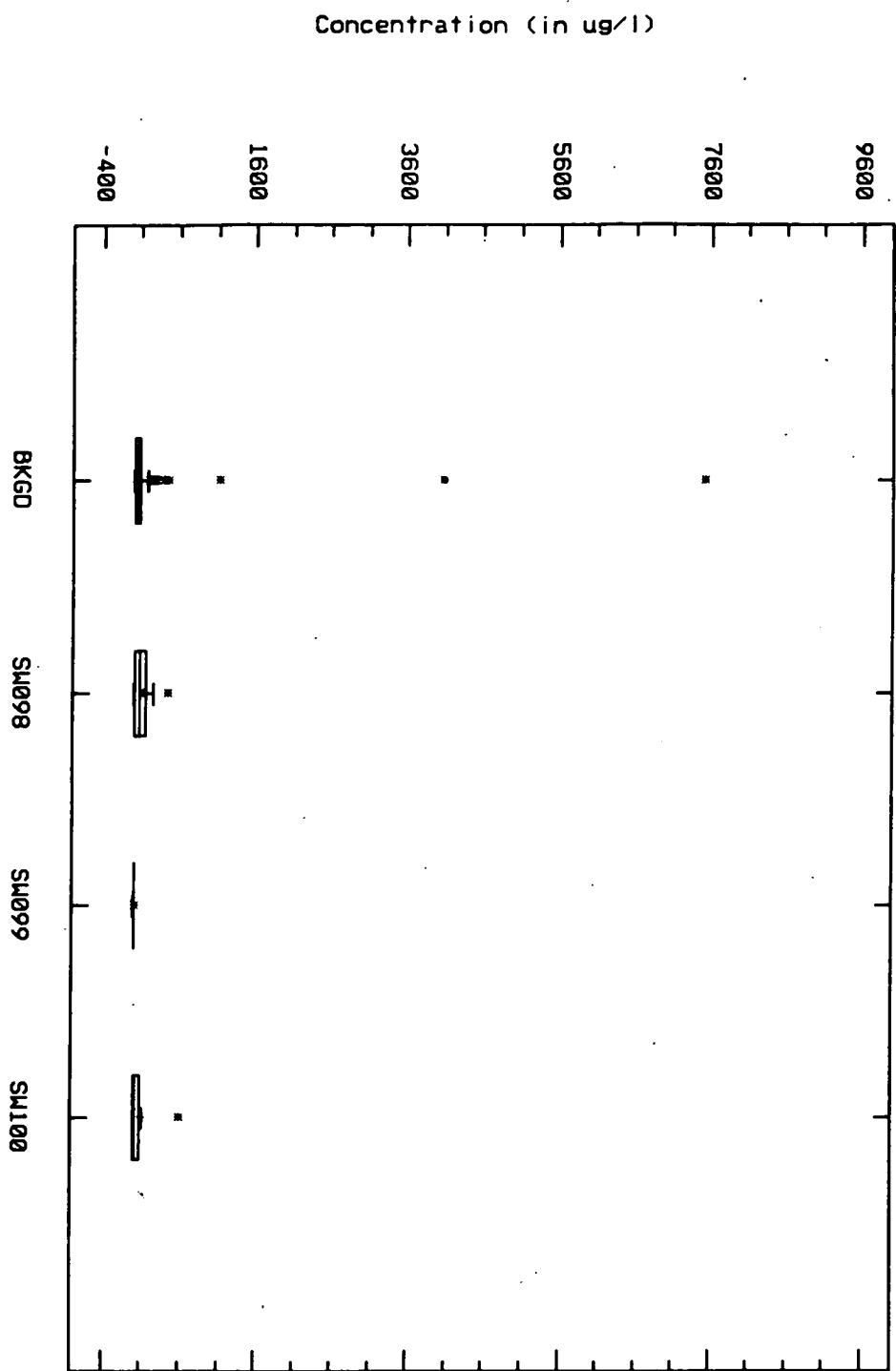
Magnesium (Total): Surface Water
Background vs. 0U7 SW Station



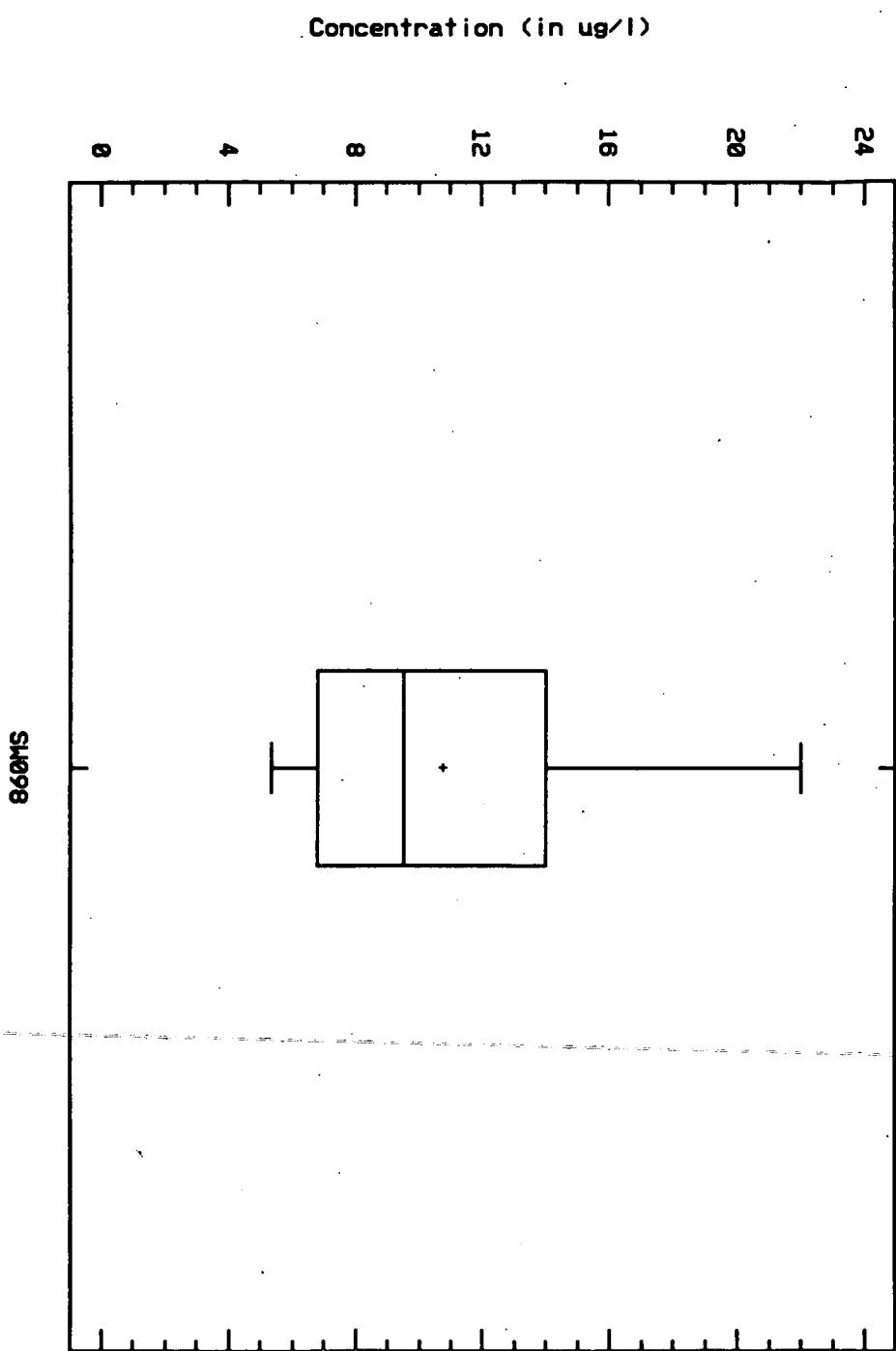
Magnesium (Total): Surface Water
Background vs. DJ7 SW Station



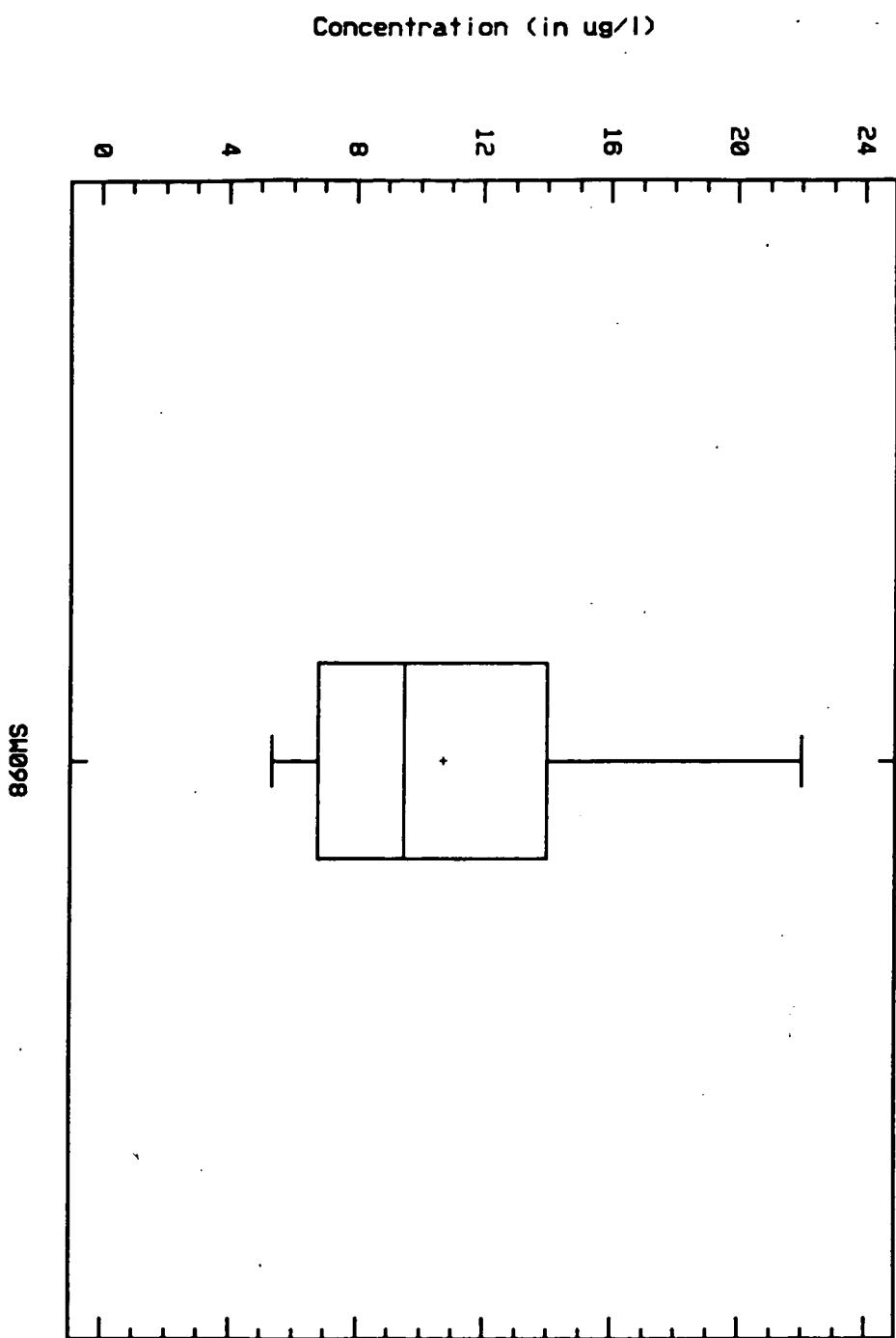
Manganese (Total): Surface Water
Background vs. 0U7 SW Station



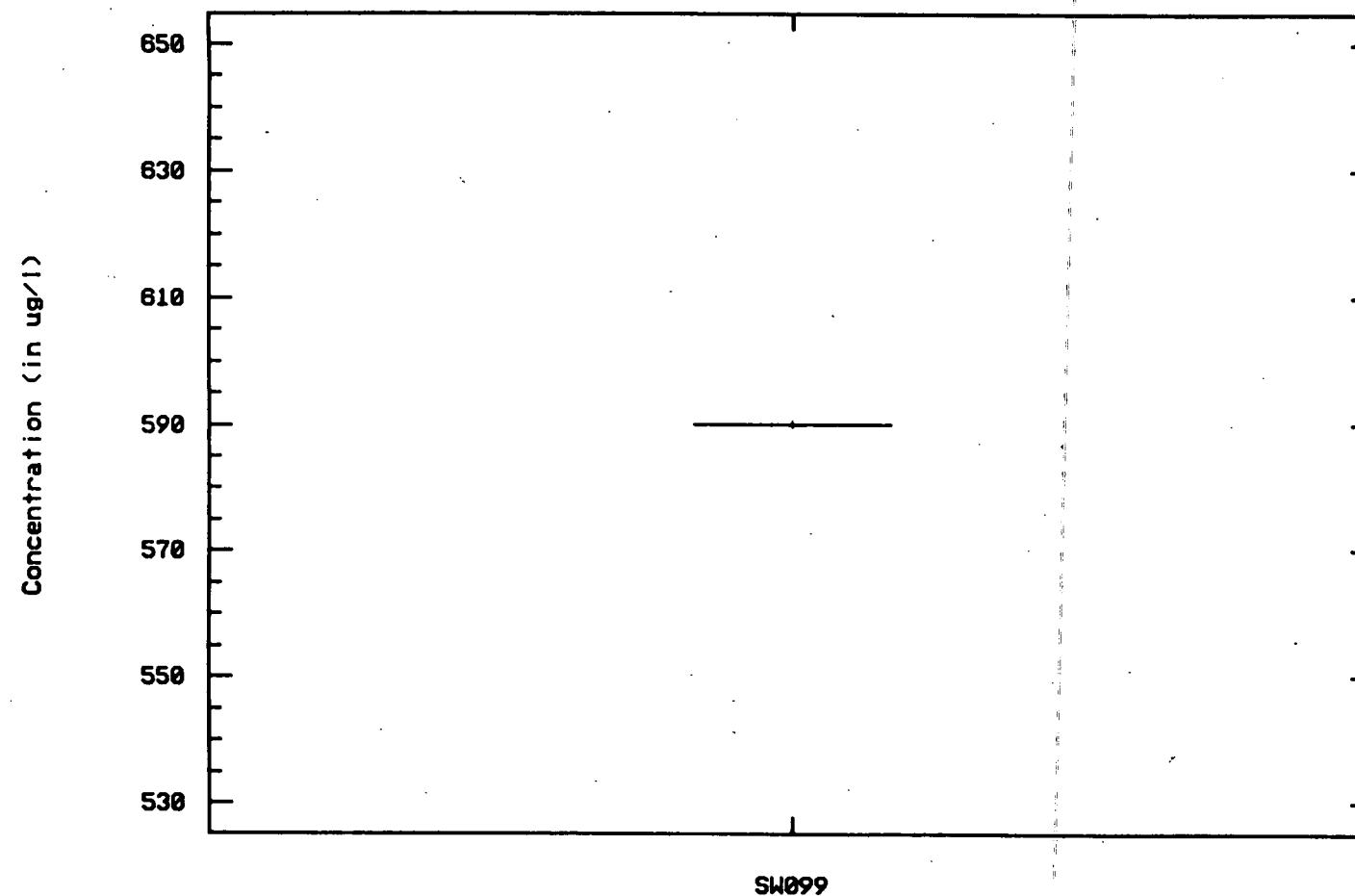
Nickel (Total): Surface Water
Background vs. 0U7 SW Station



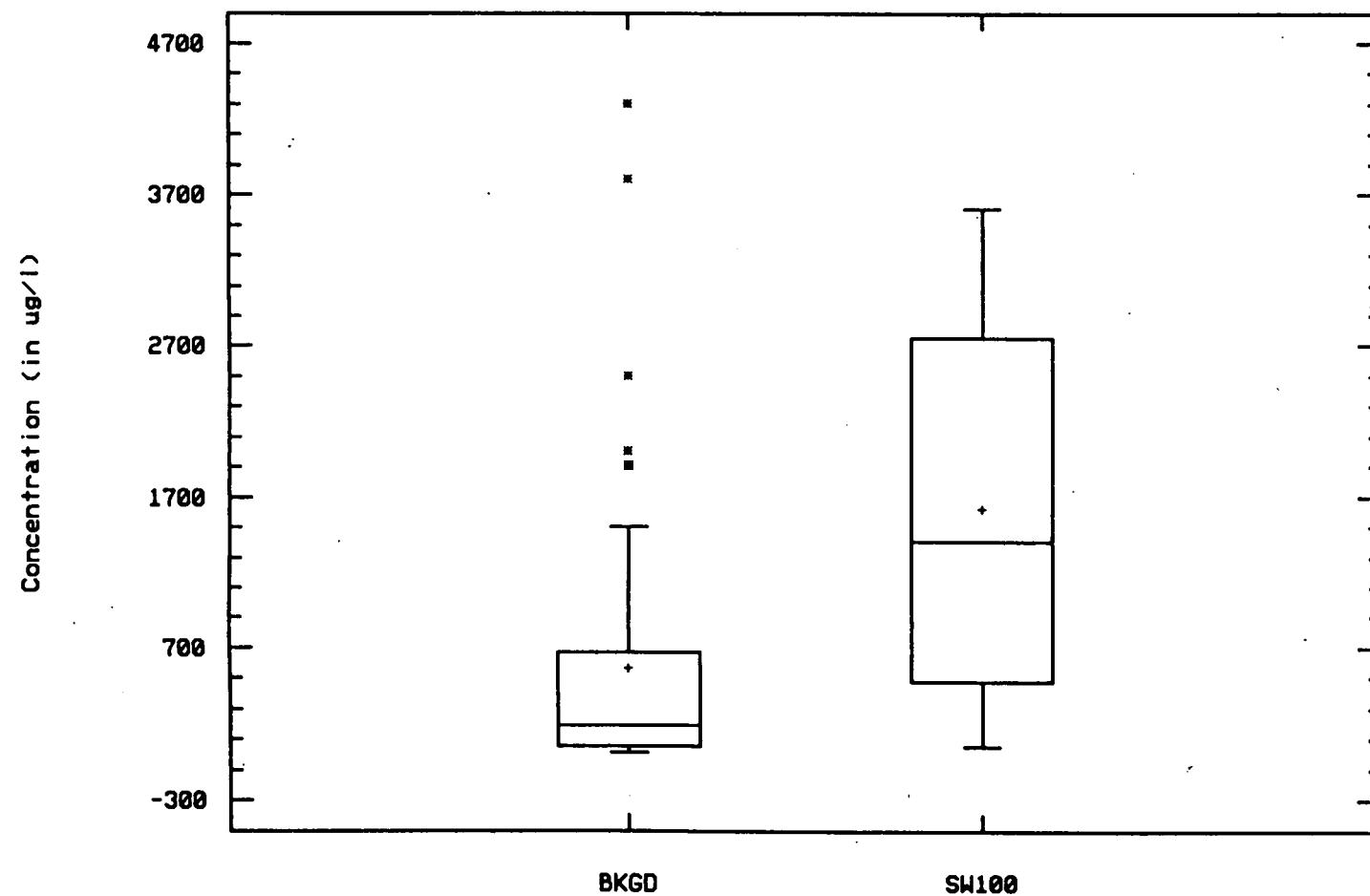
Nickel (Total): Surface Water
Background vs. OUT SW Stations



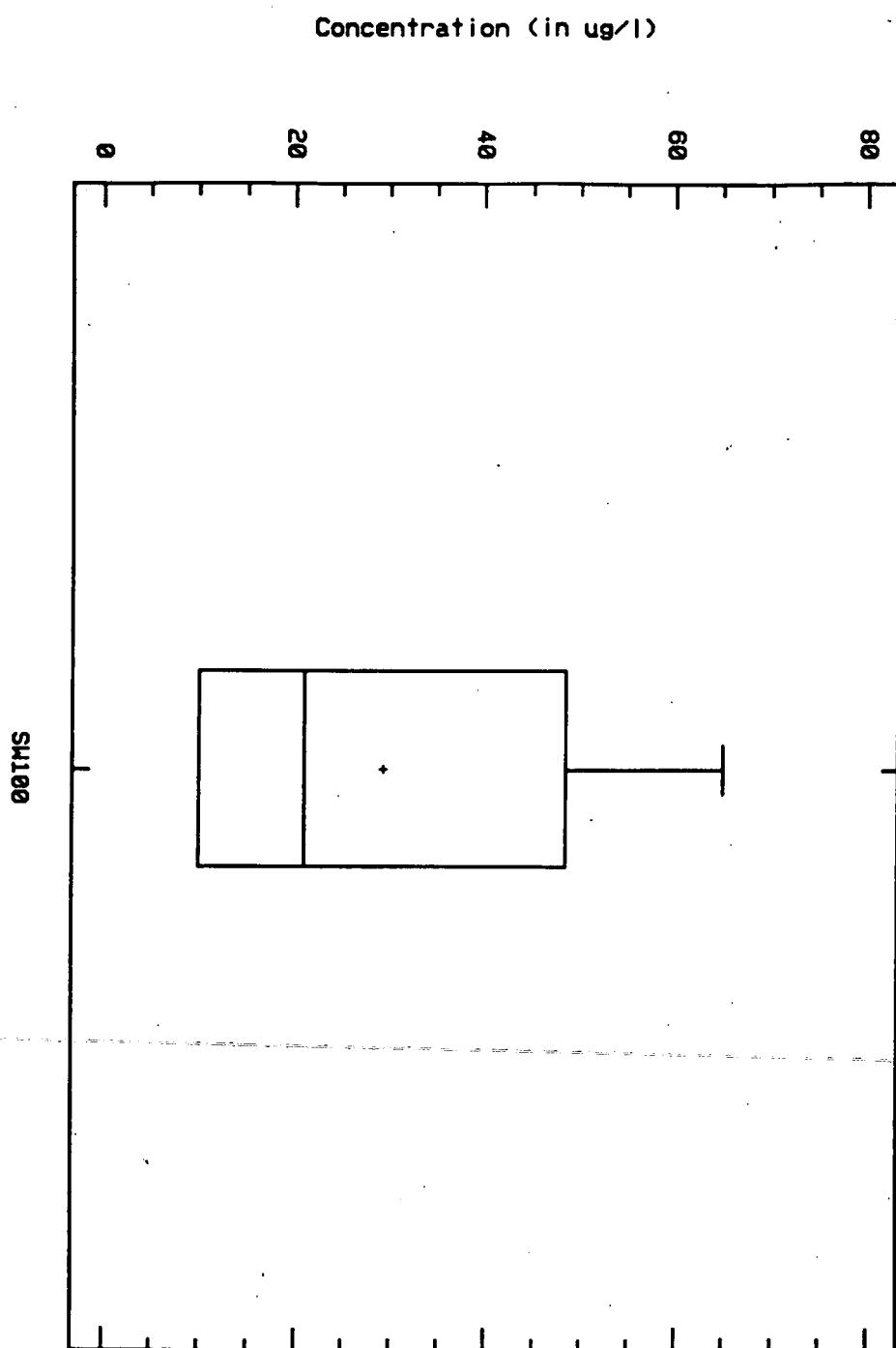
Nitrate (Total): Surface Water
Background vs. DU7 SW Stations



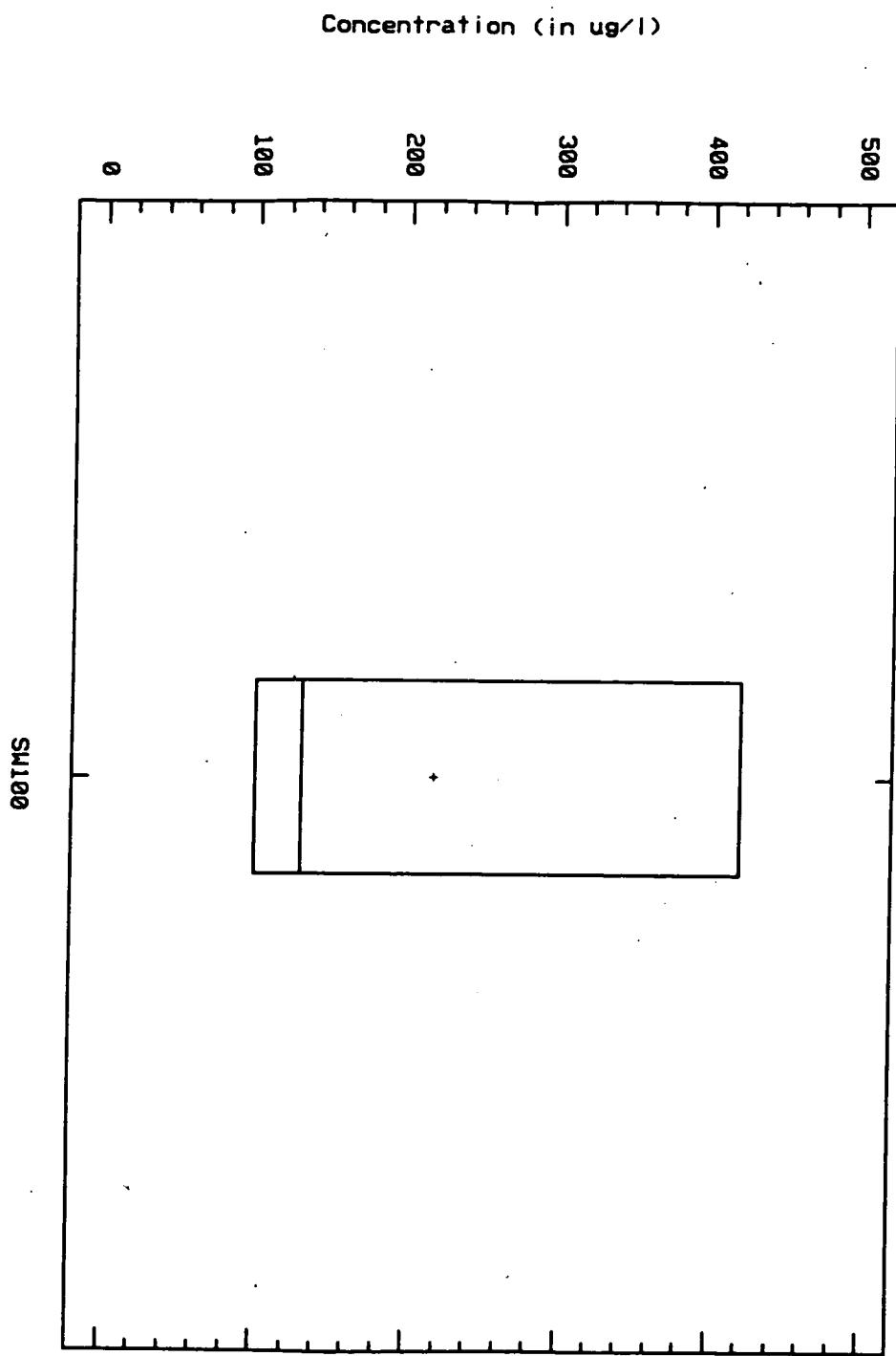
Nitrate\Nitrite (Total): Surface Water
Background vs. OU7 SW Stations



Nitrite (Total): Surface Water
Background vs. 047 SW Stations

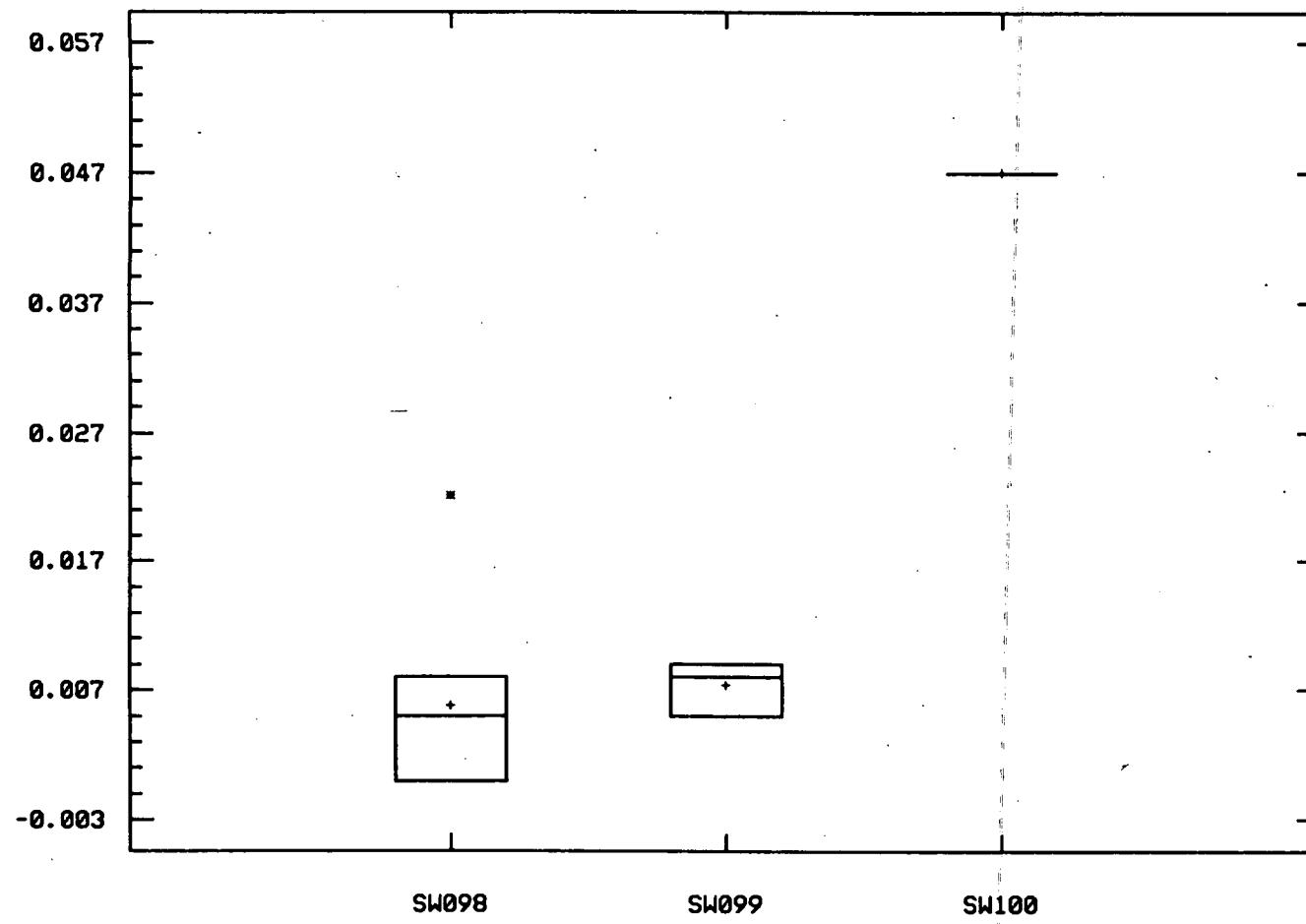


Phosphorous (Total): Surface Water
Background vs. OUT SW Stations

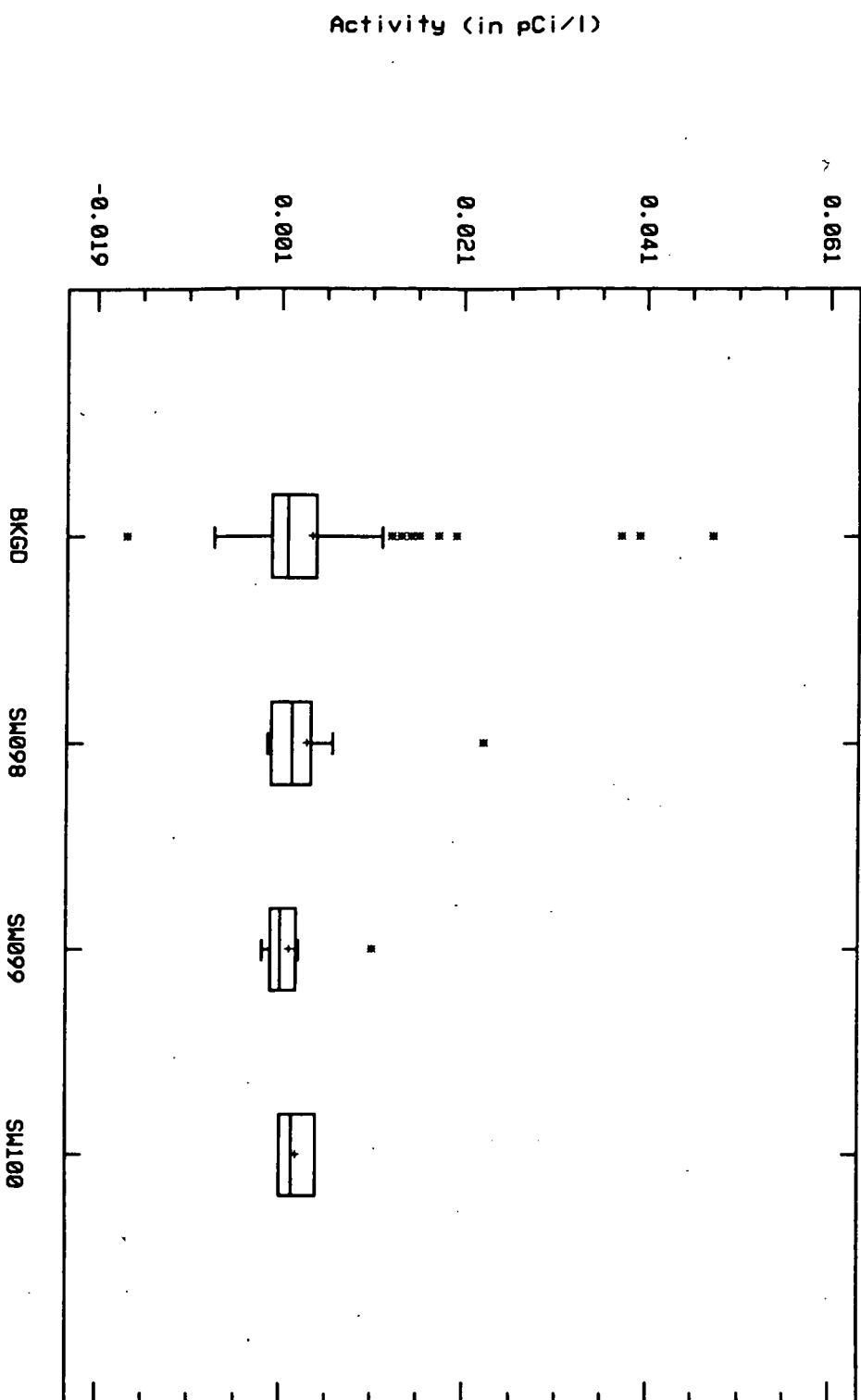


Plutonium-239 (Total): Surface Water
Background vs. OU7 SW Stations

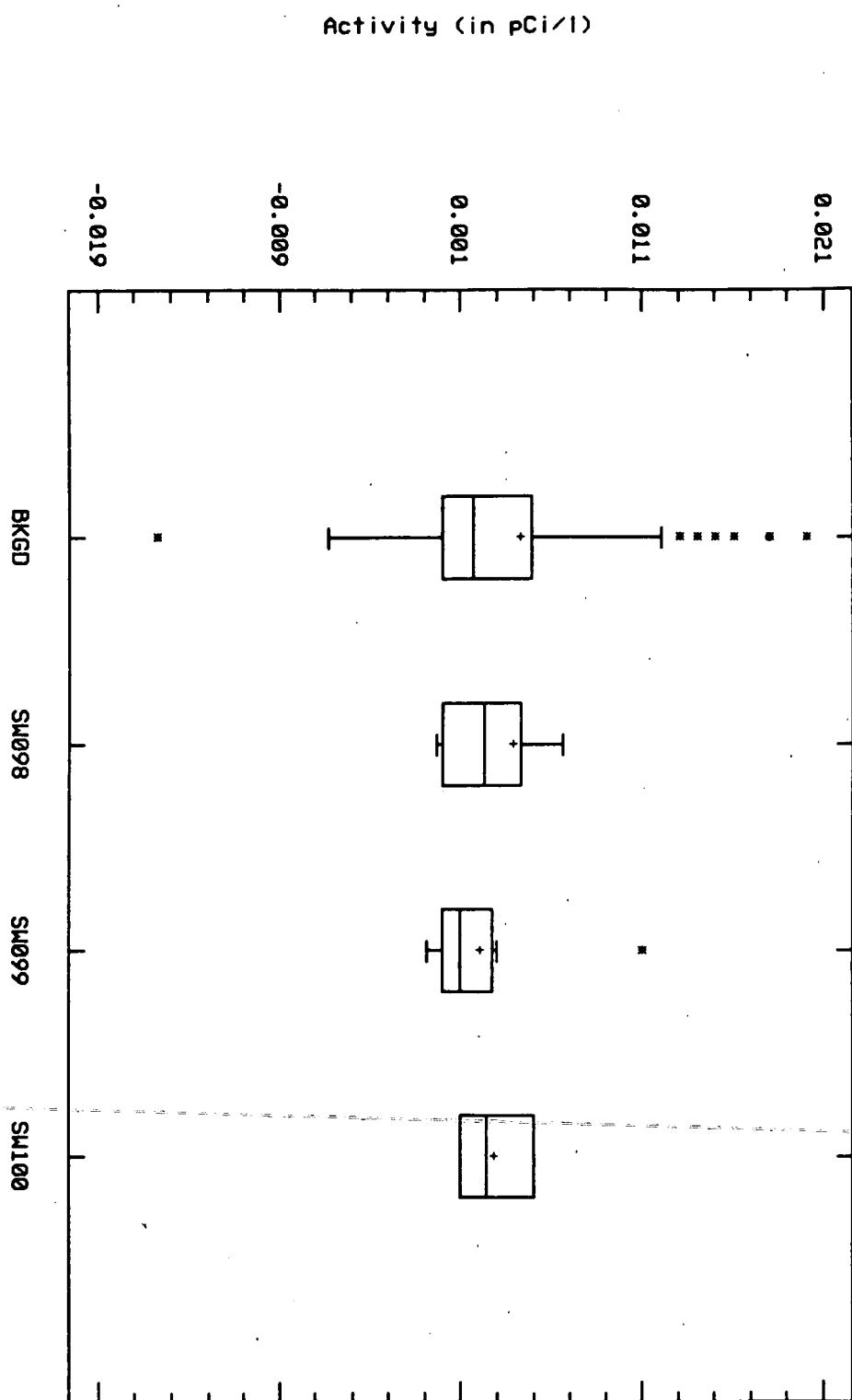
Activity (in pCi/l)



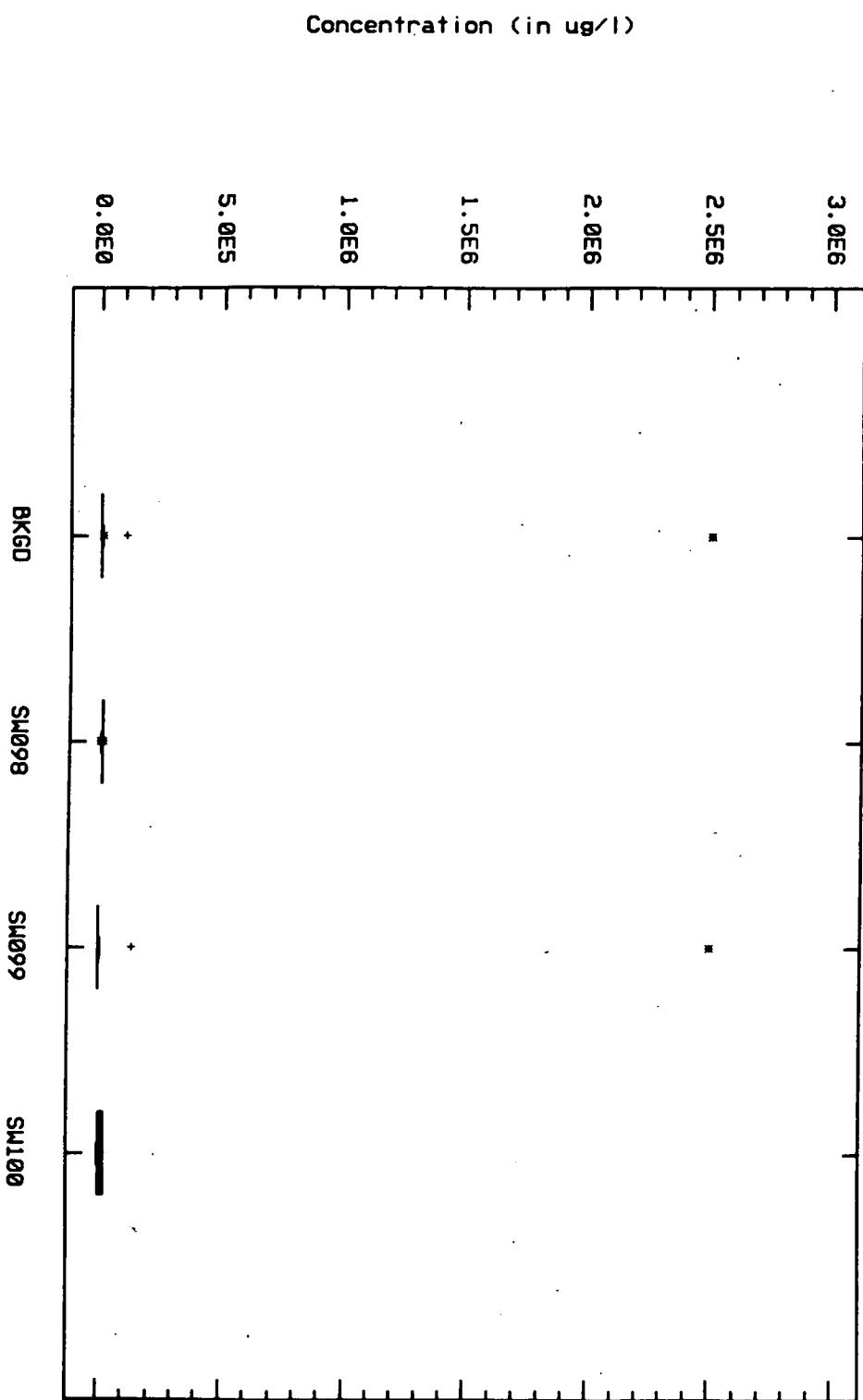
Plutonium-239/240 (Total): Surface Water
Background vs. OUT SW Stations



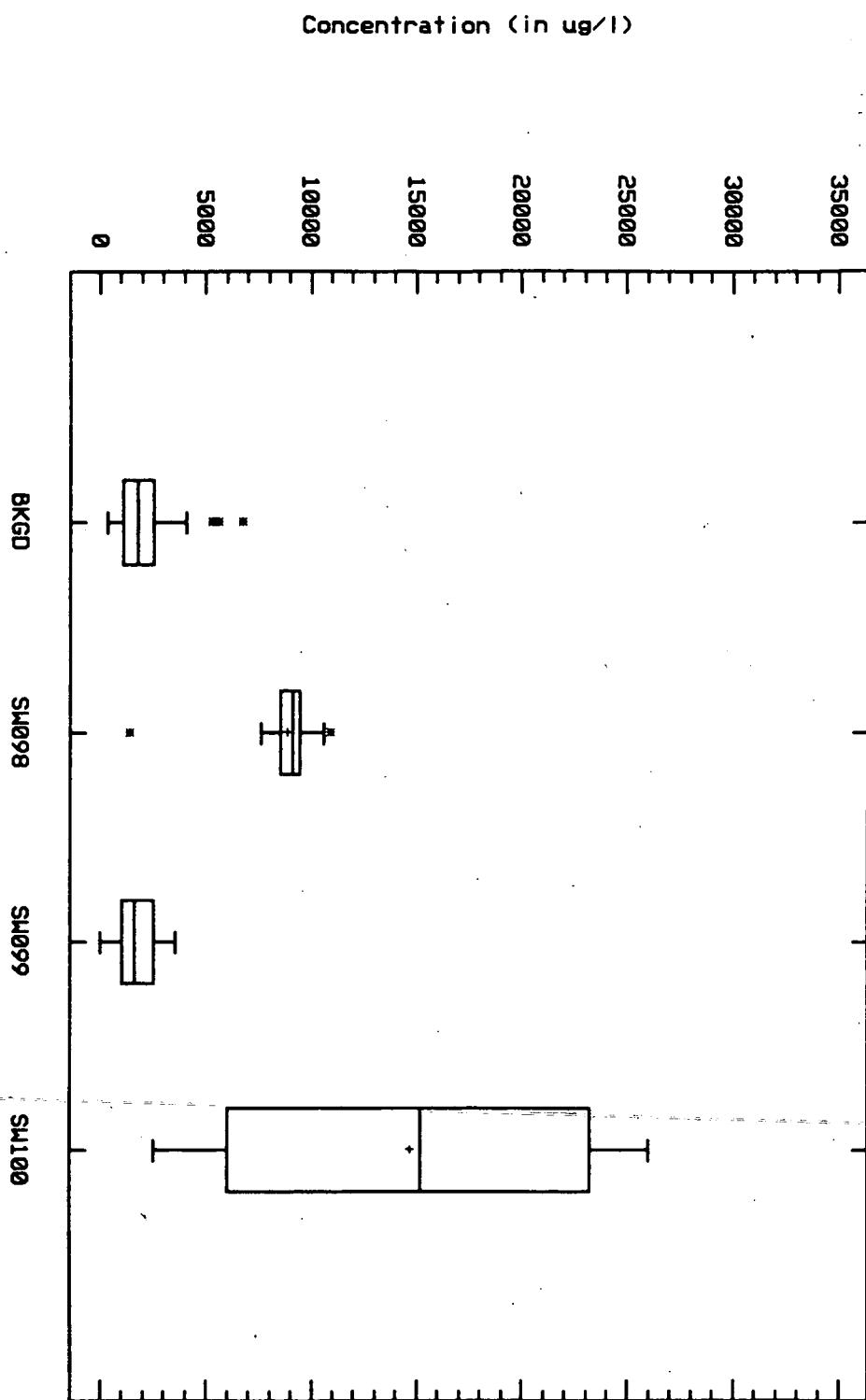
Plutonium-239/240 (Total): Surface Water
Background vs. OUT SW Stations



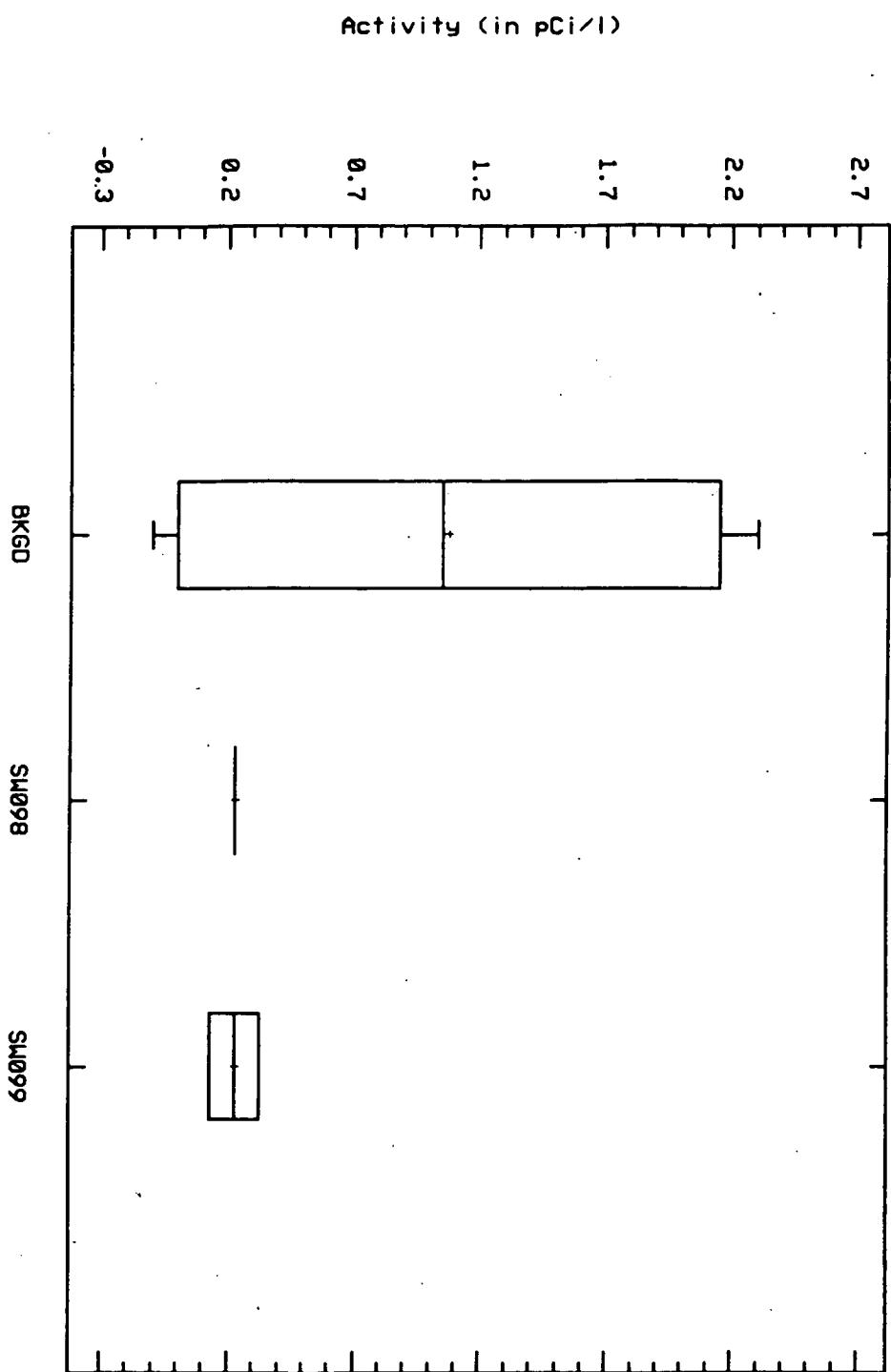
Potassium (Total): Surface Water
Background vs. OUT SW Stations



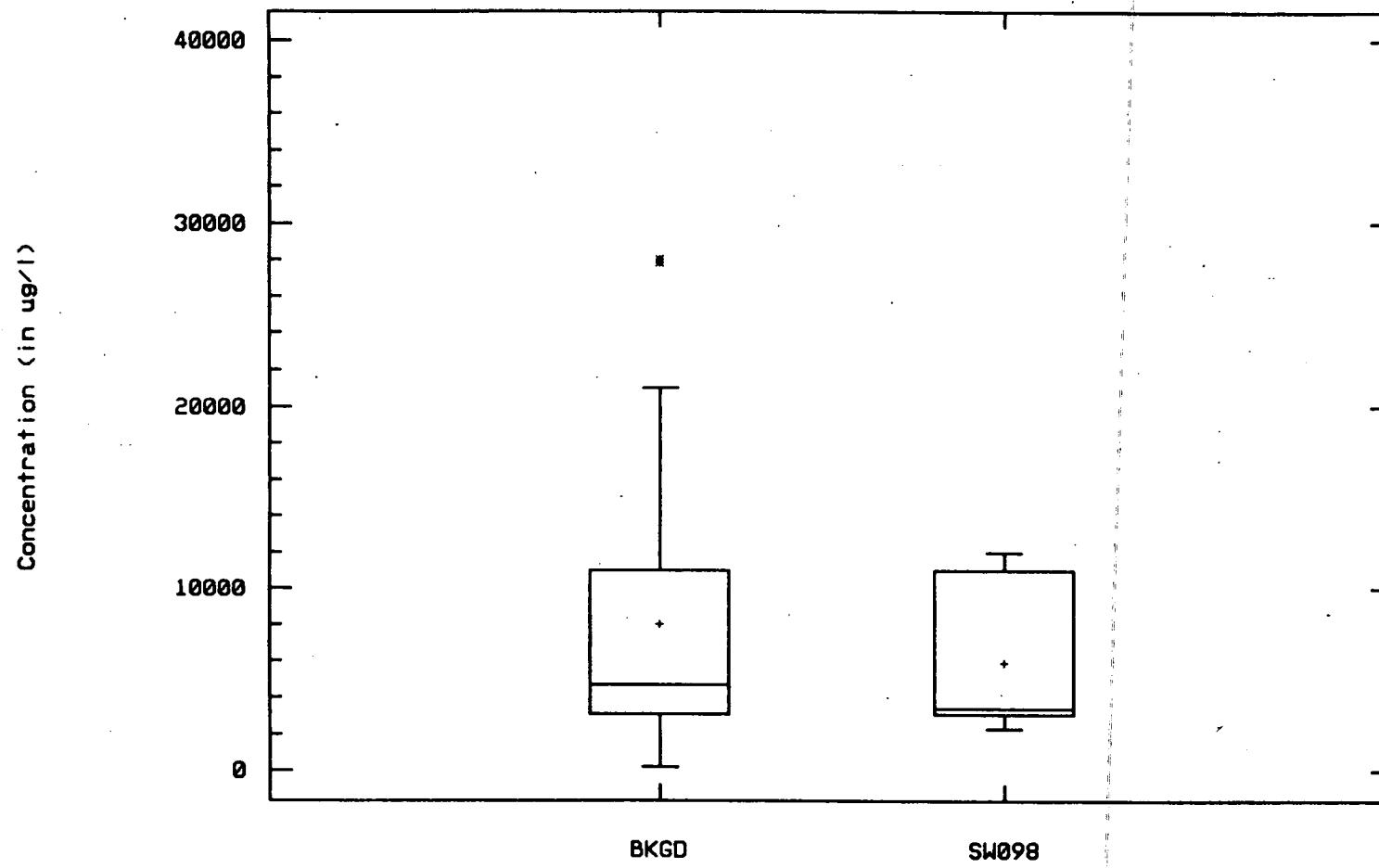
Potassium (Total): Surface Water
Background vs. OUT SW Stations



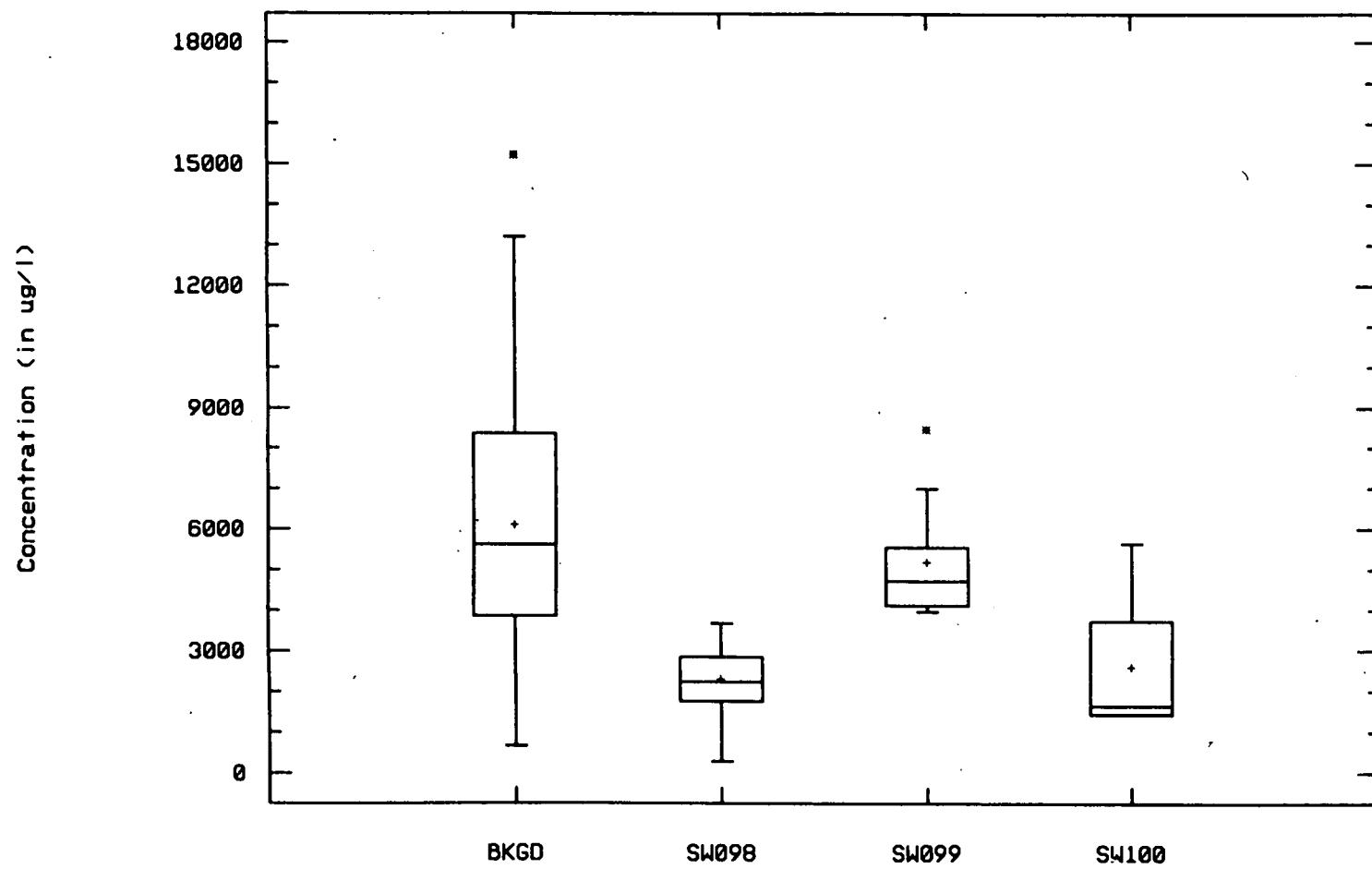
Radium-226 (Total): Surface Water
Background vs. 0U7 SW Stations



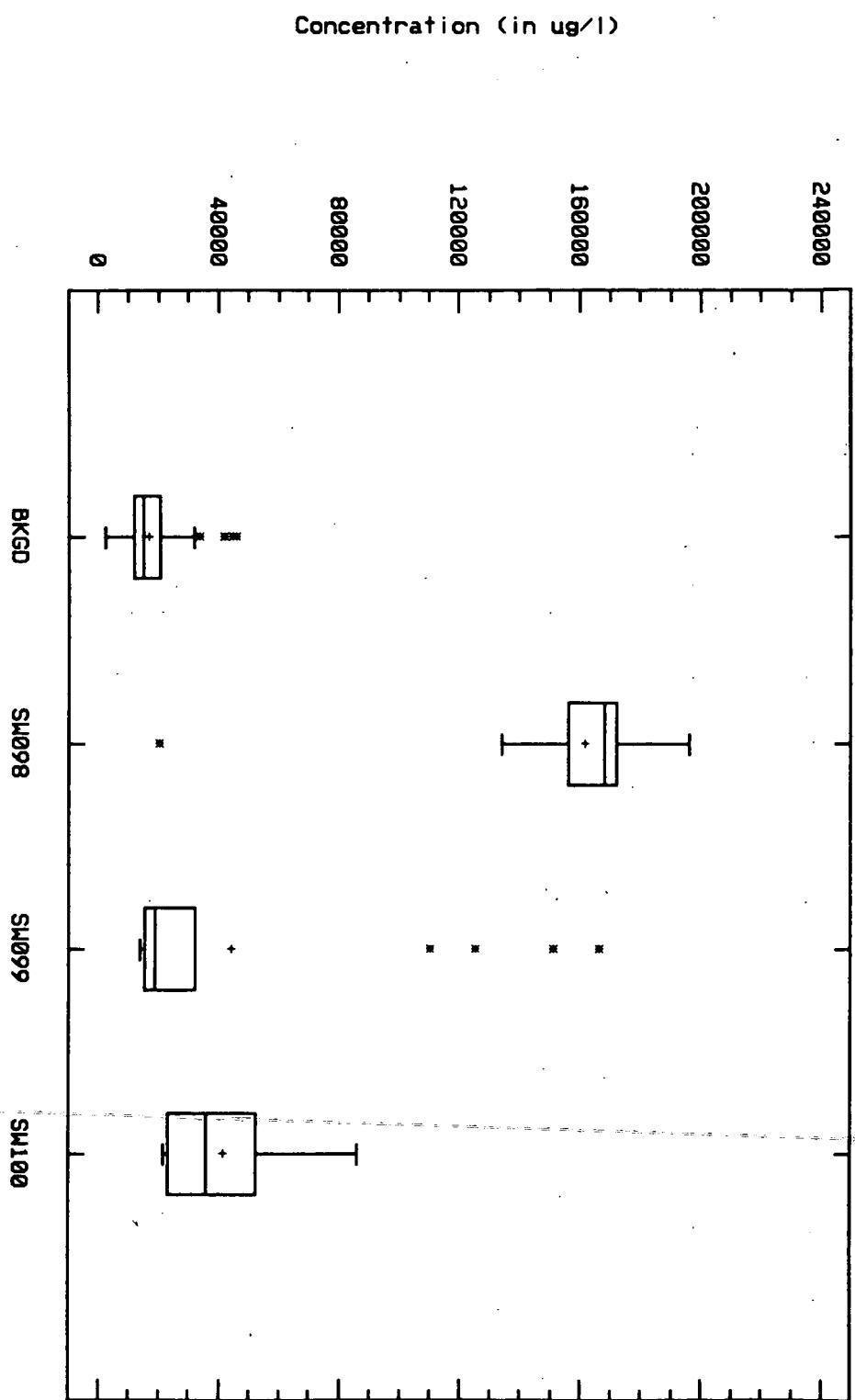
Silica (Total): Surface Water
Background vs. OU7 SW Stations



Silicon (Total): Surface Water
Background vs. 0U7 SW Stations

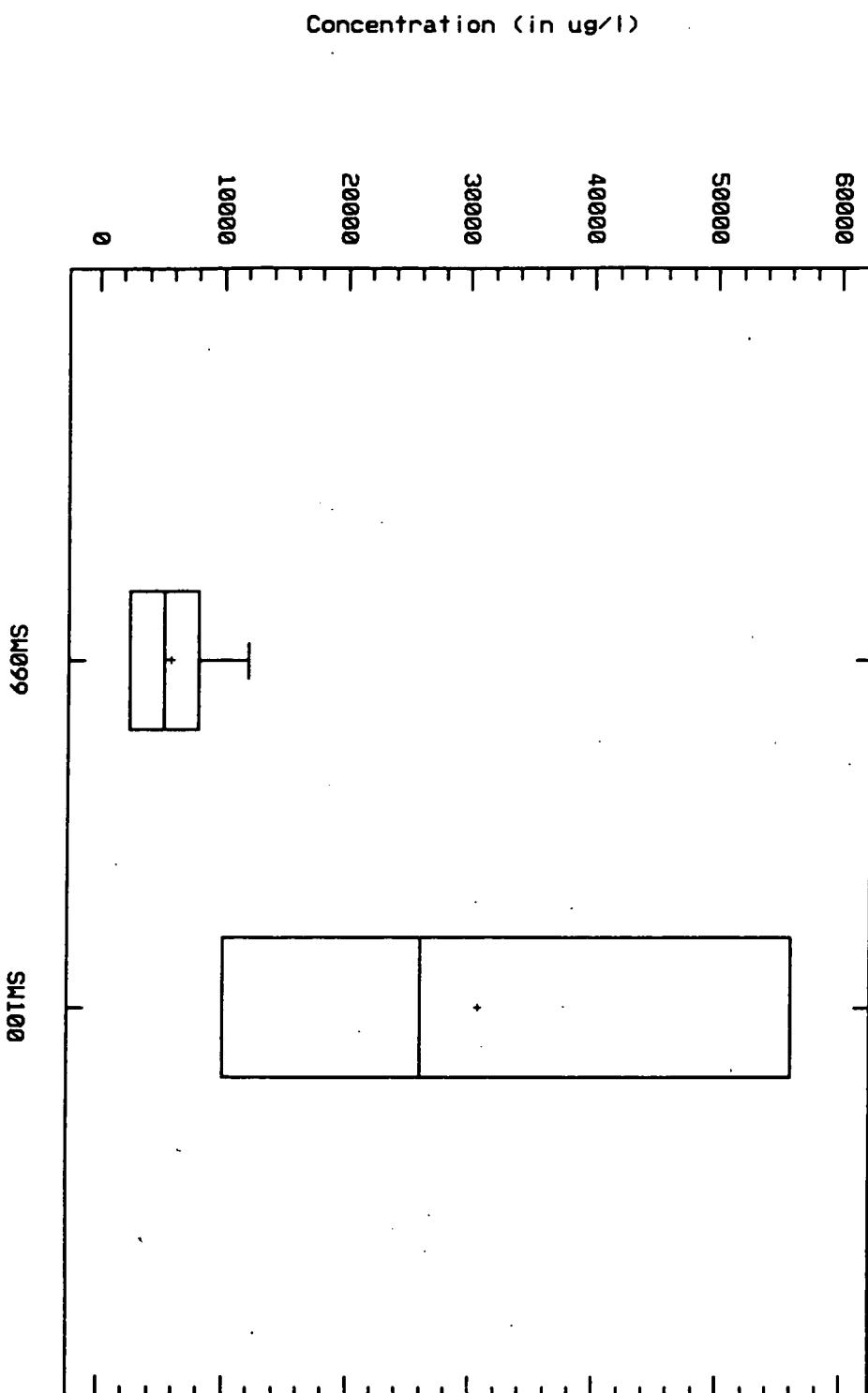


Sodium (Total): Surface Water
Background vs. 0U7 SW Station

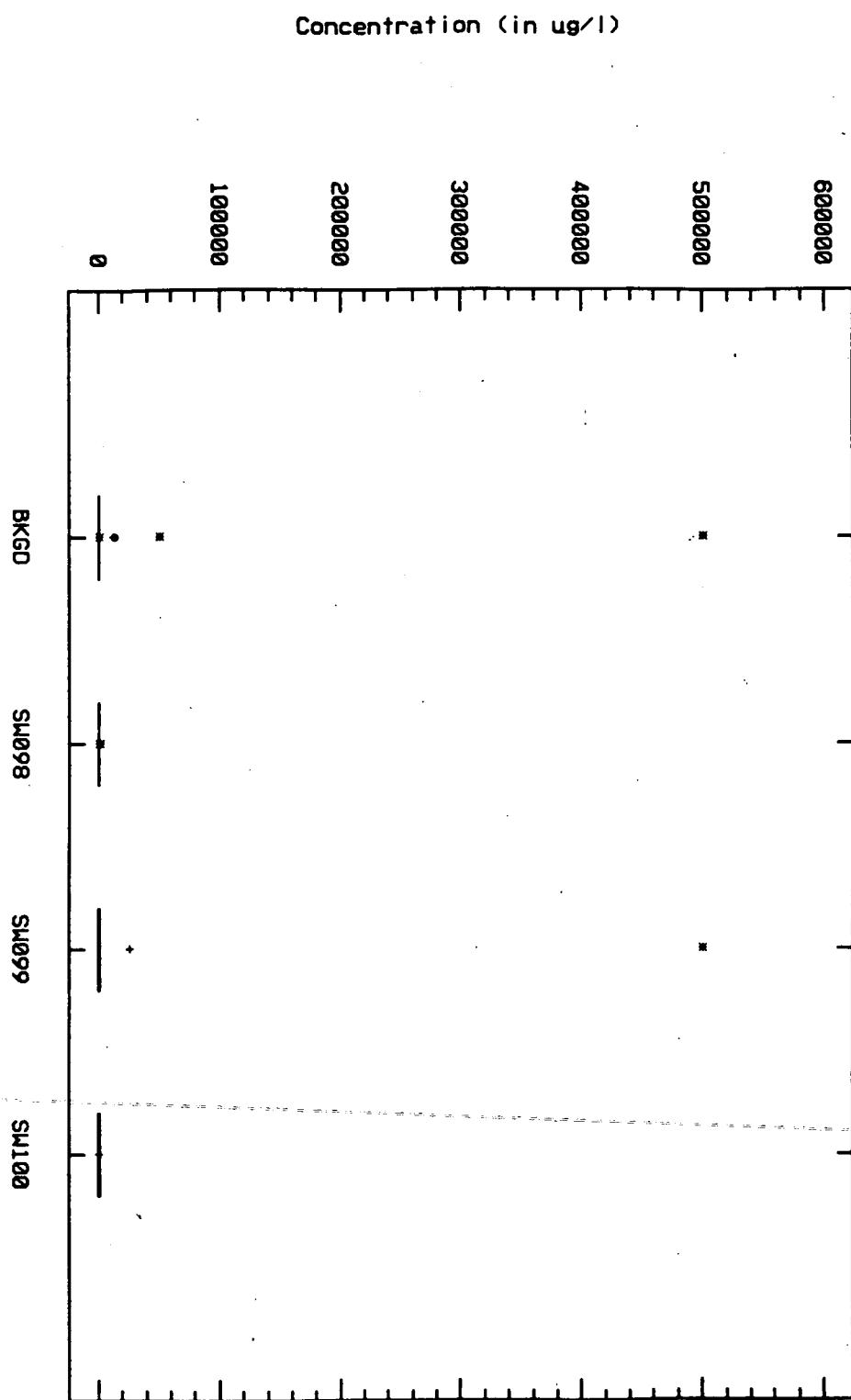


Solids Nonvolatile Total: Surface Water

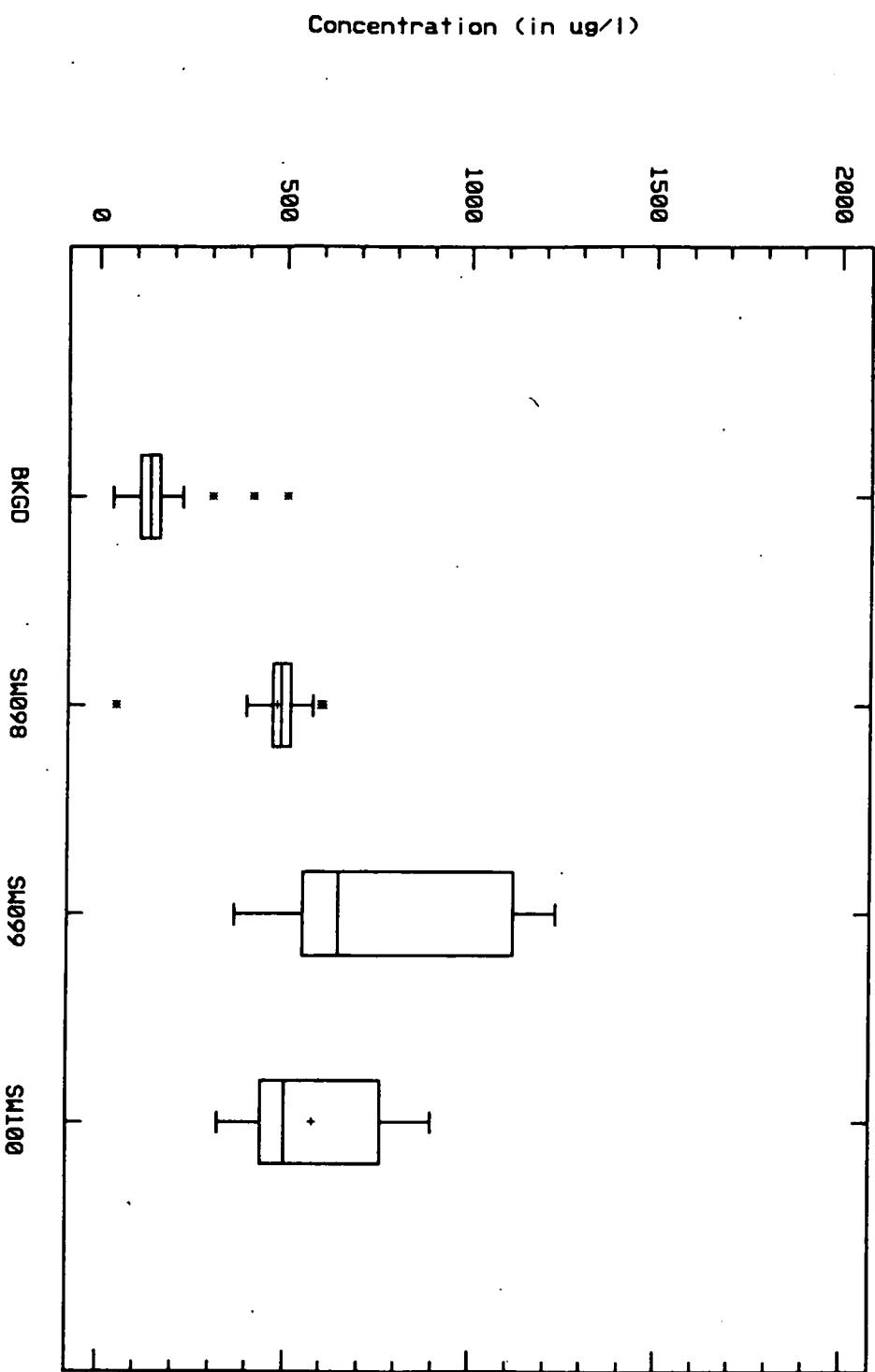
Background vs. OUT SW Stations



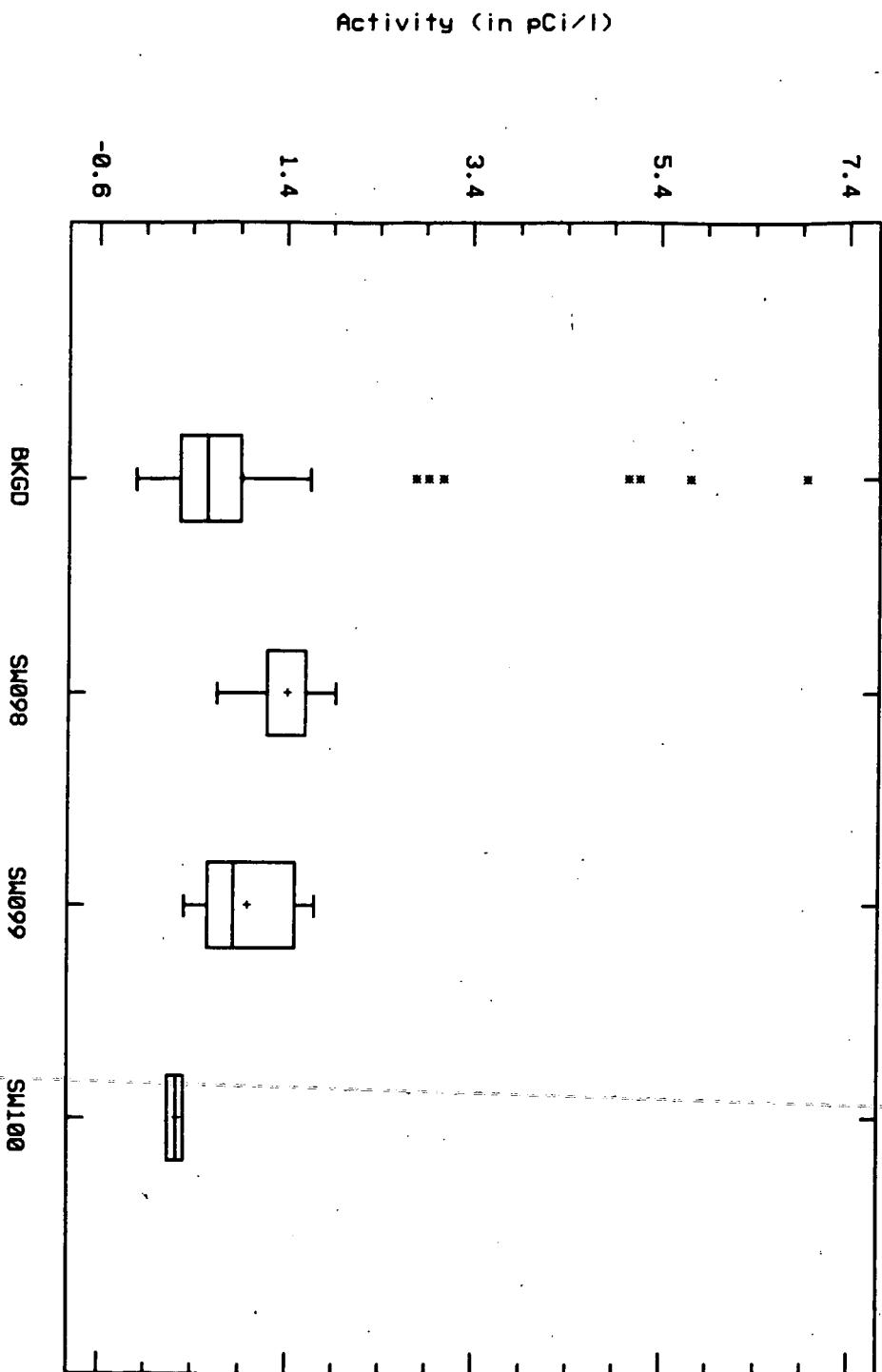
Strontium (Total): Surface Water
Background vs. OUT SW Stations



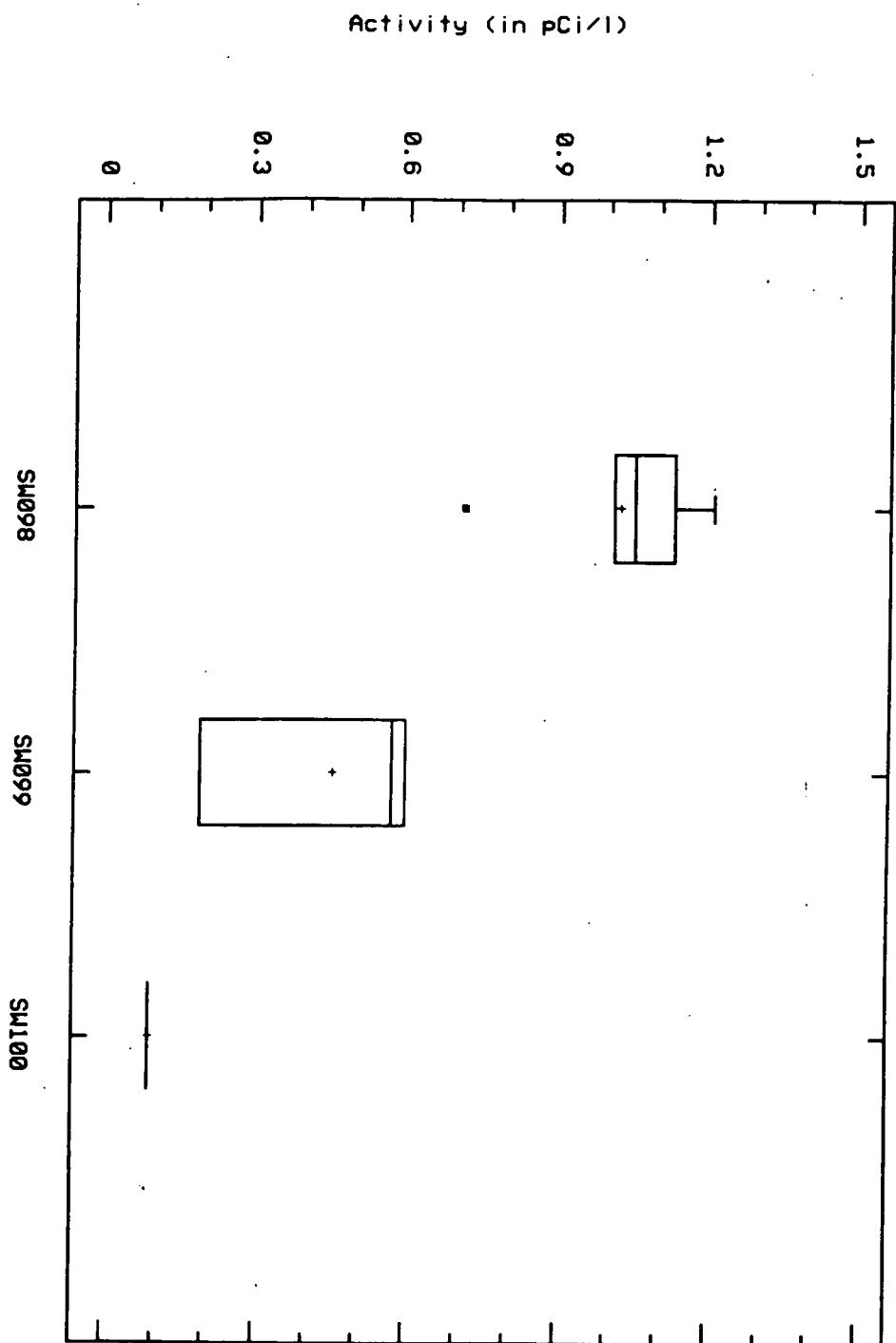
Strontium (Total): Surface Water
Background vs. 0U7 SW Stations



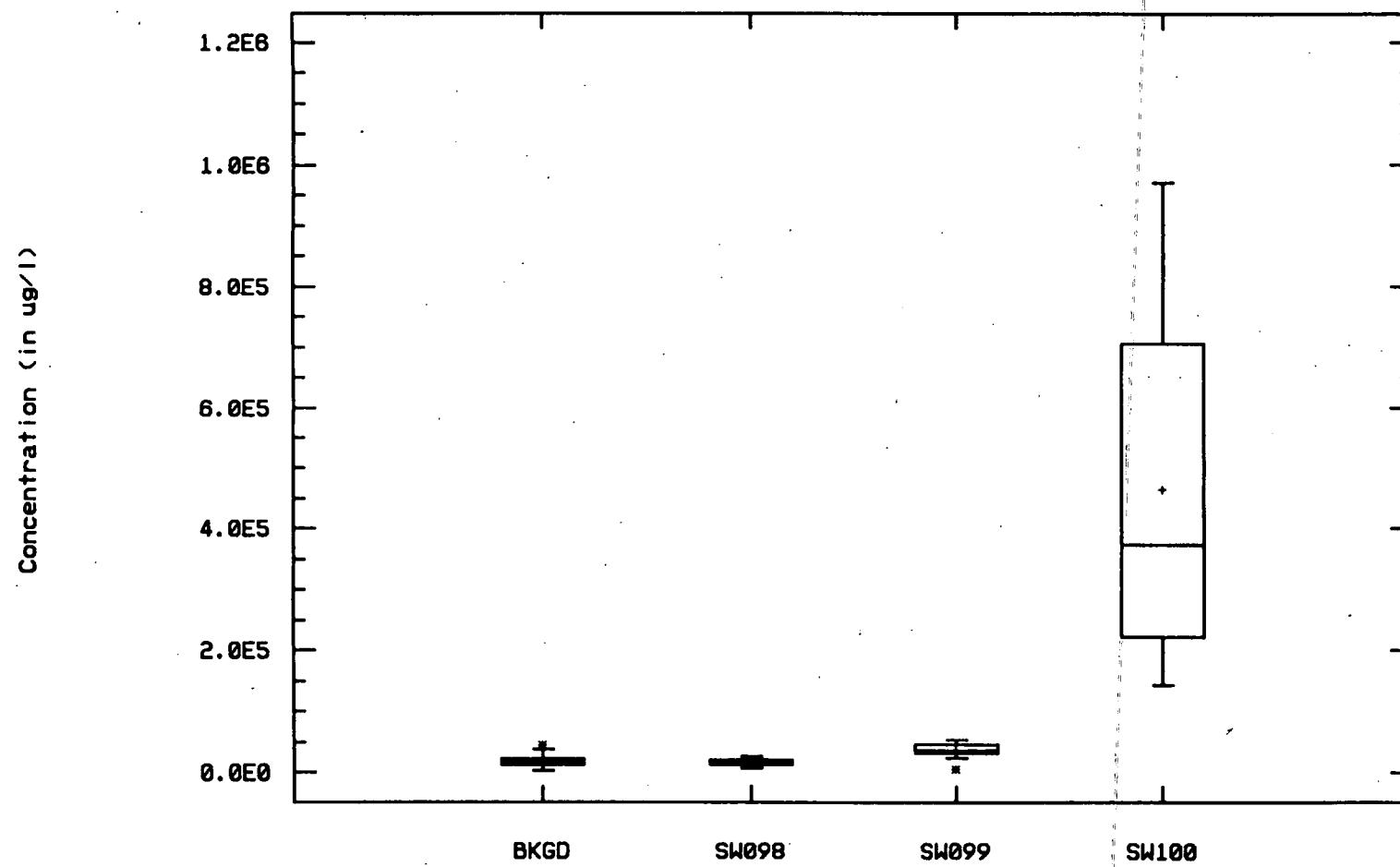
Strontium-89, 90 (Total): Surface Water
Background vs. 0U7 SW Stations



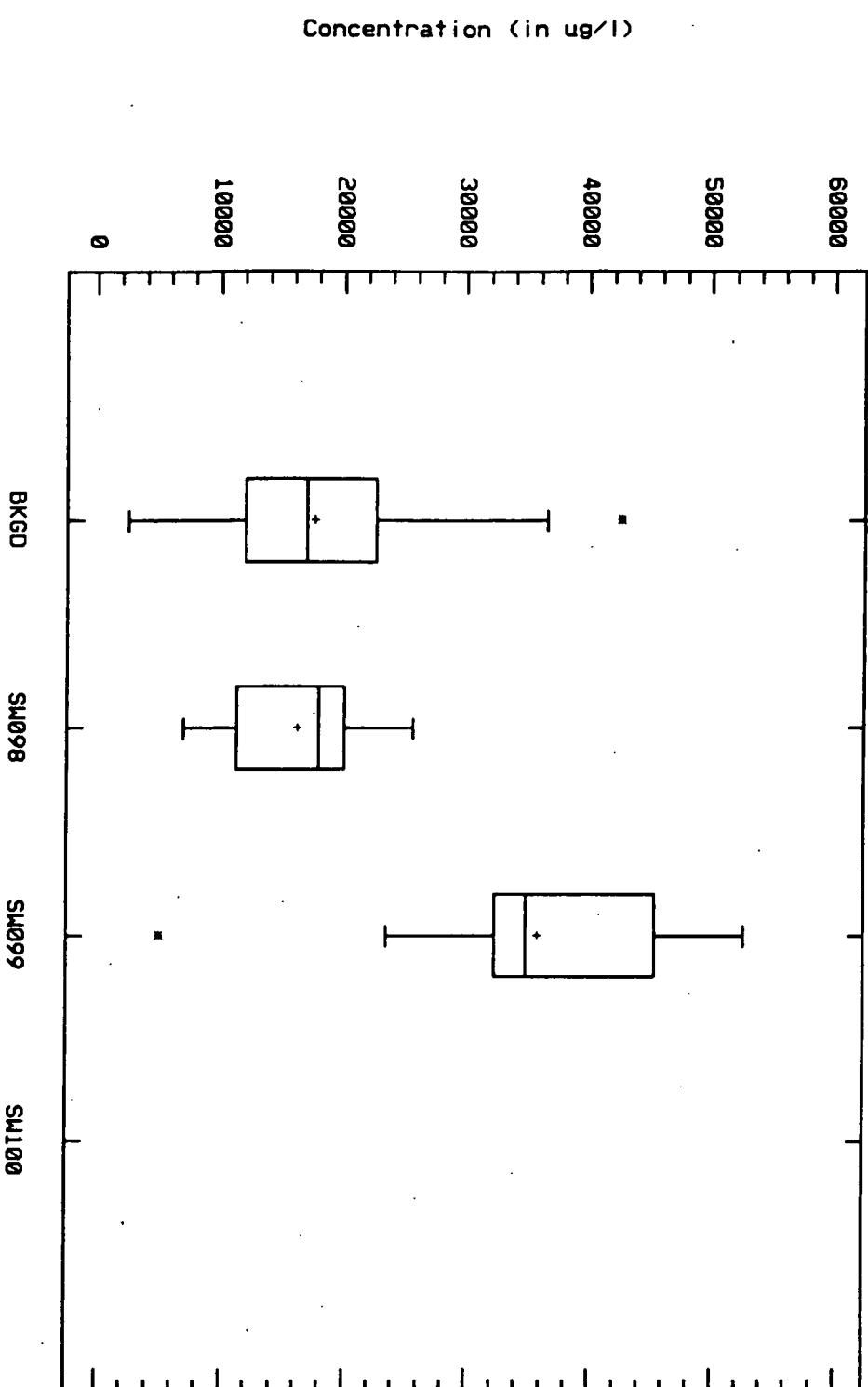
Strontium-90 (Total): Surface Water
Background vs. 0U7 SW Stations



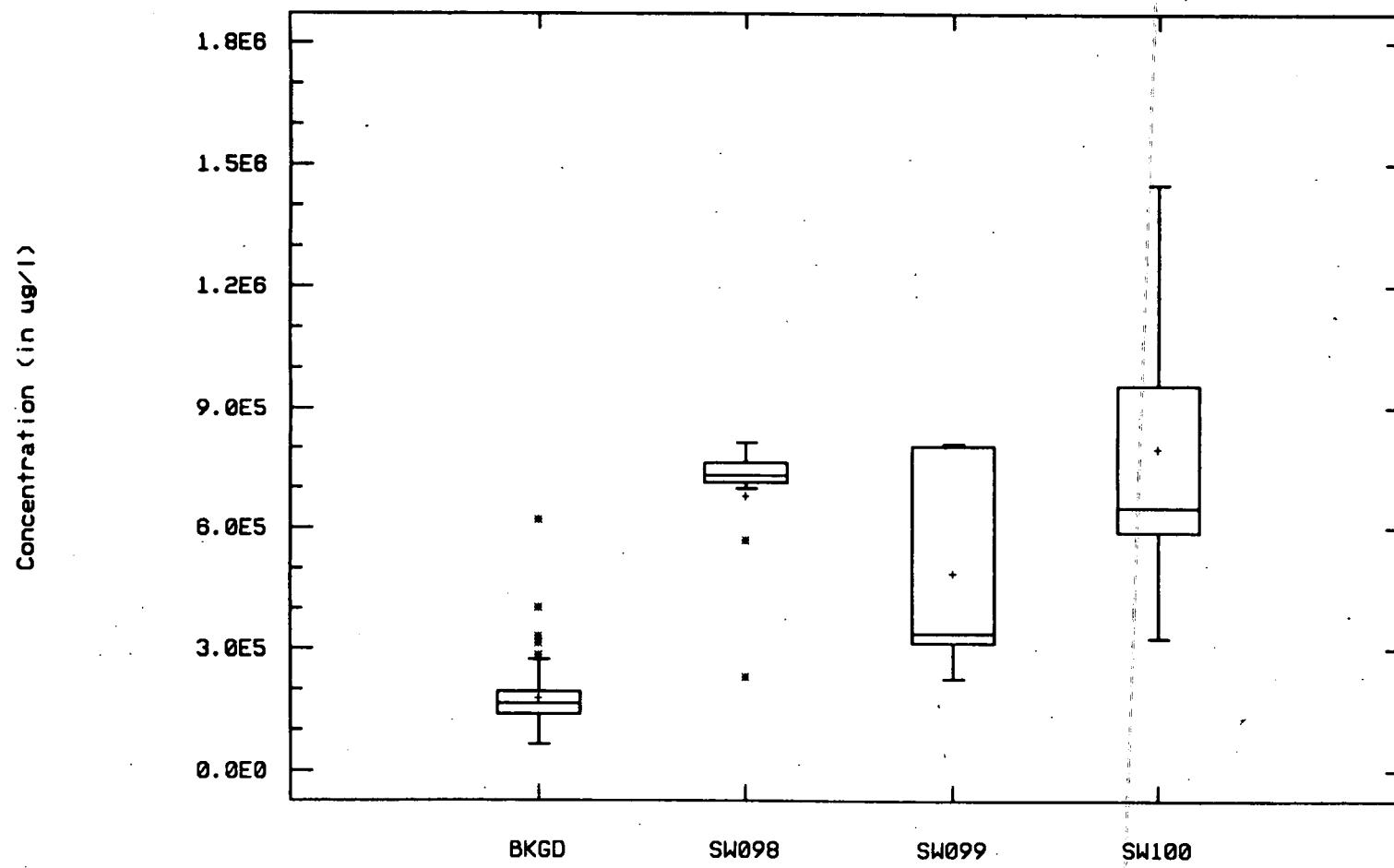
Sulfate (Total): Surface Water
Background vs. OU7 SW Stations



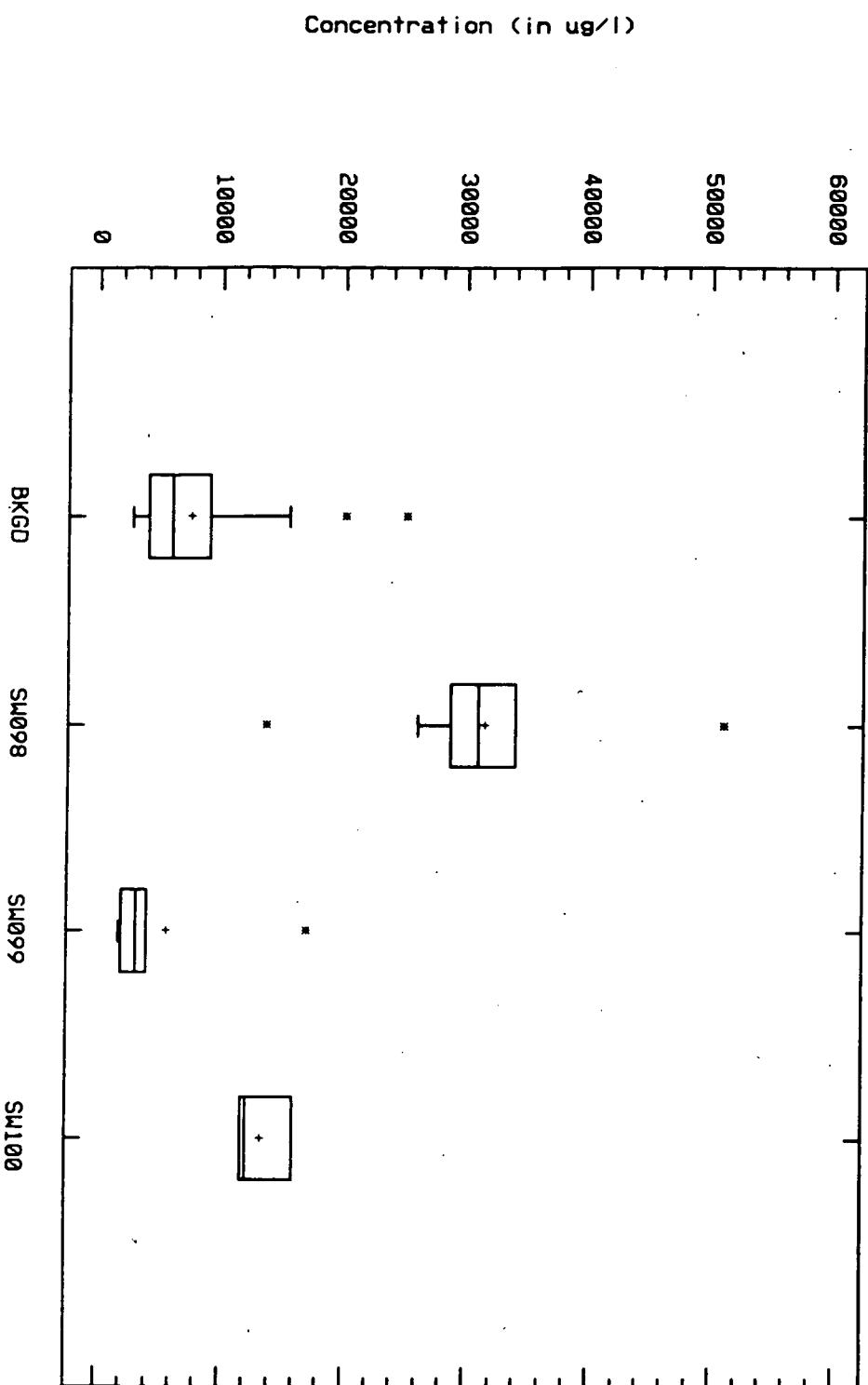
Sulfate (Total): Surface Water
Background vs. OUT SW Stations



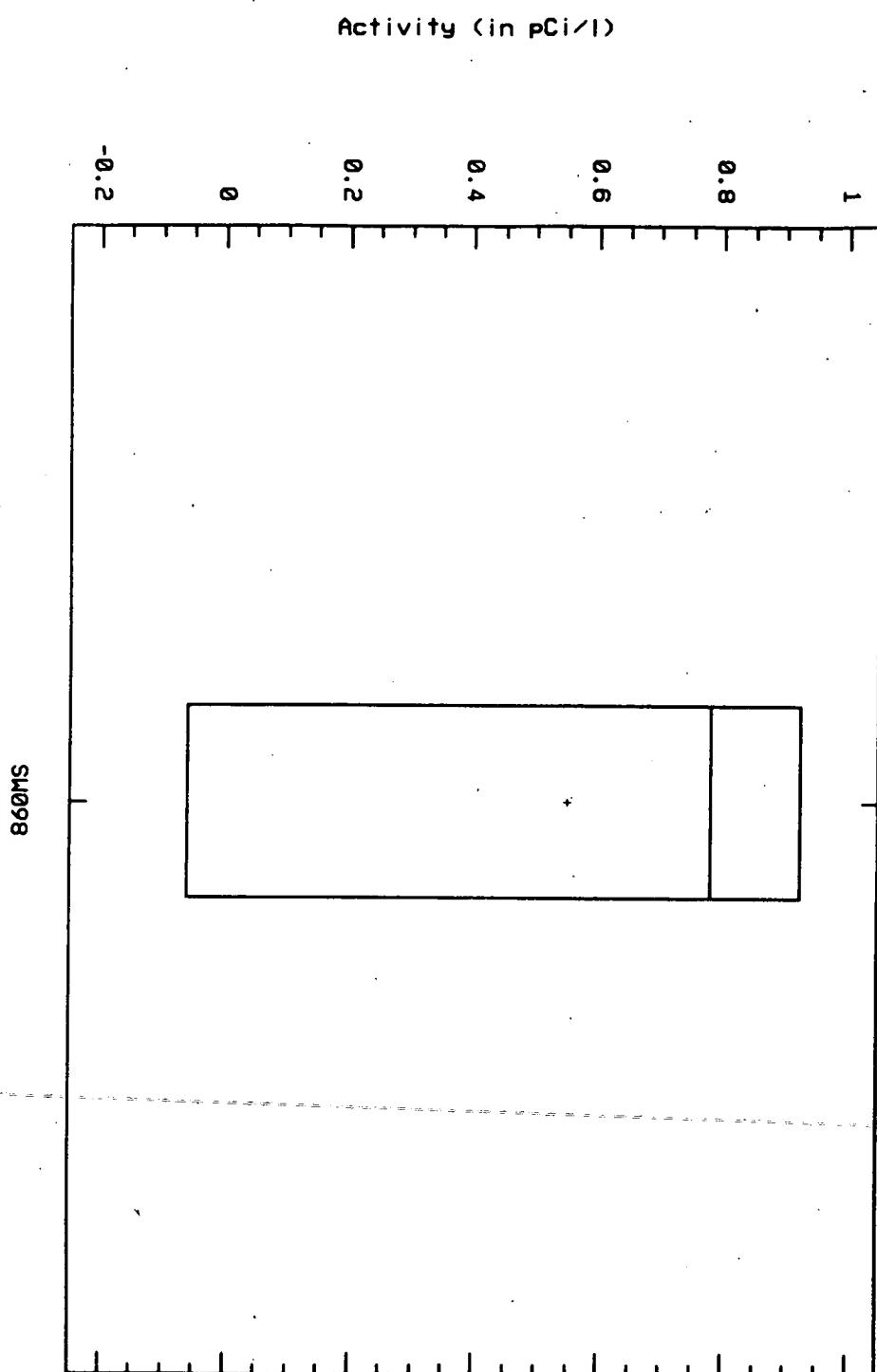
Total Dissolved Solids: Surface Water
Background vs. OU7 SW Stations



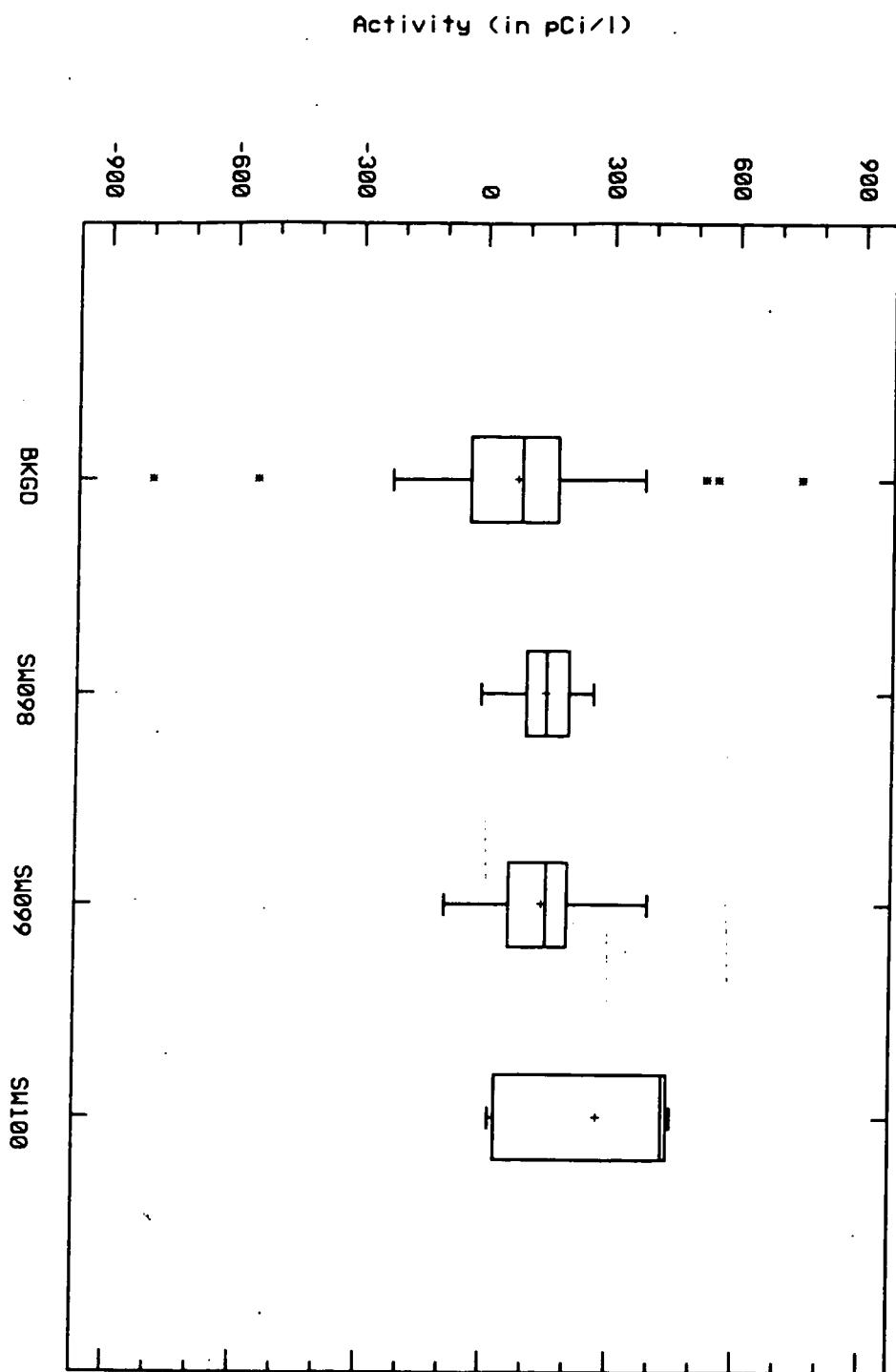
Total Organic Carbon: Surface Water
Background vs. OUT SW Stations



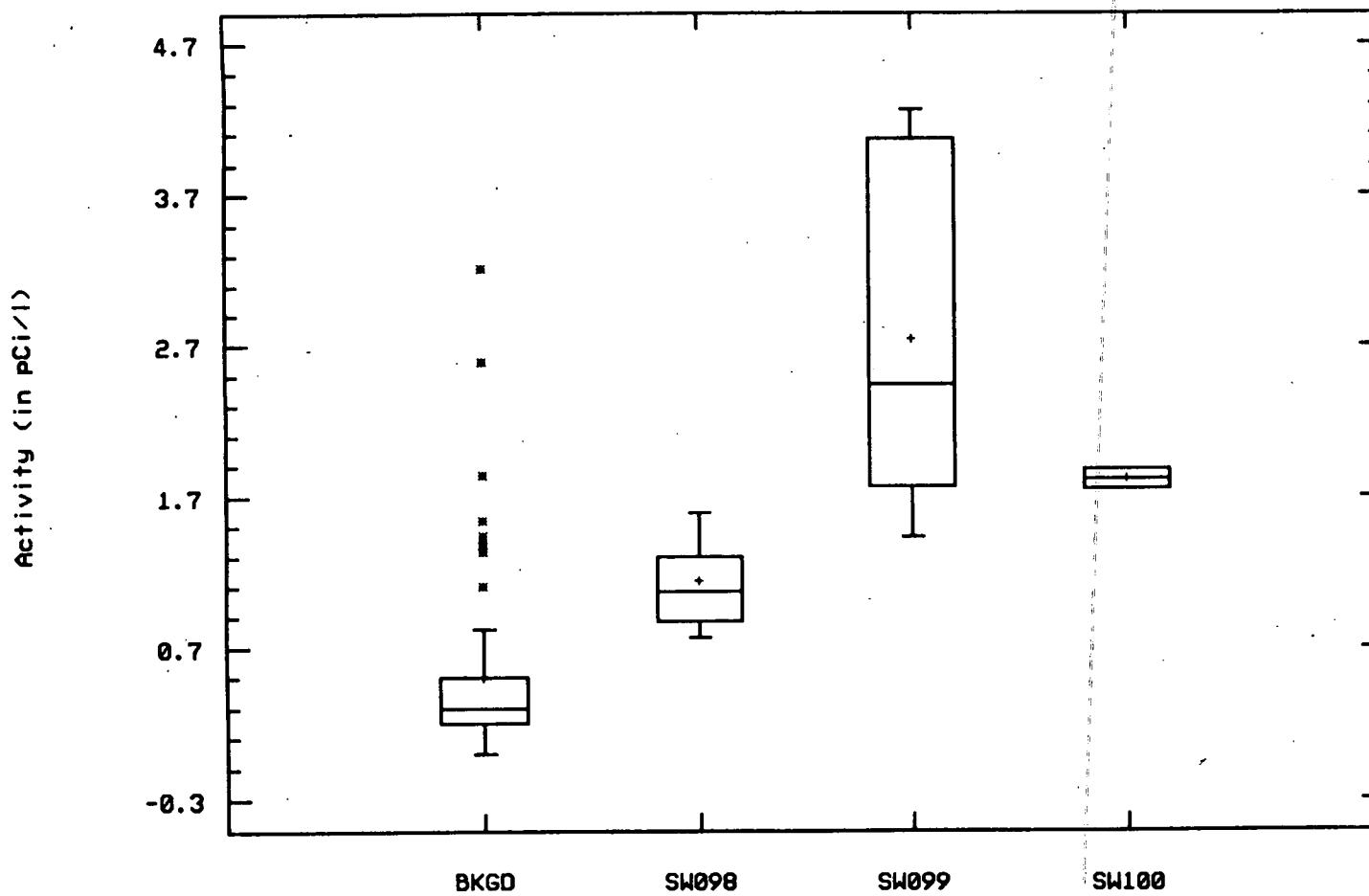
Total Radiocaesium: Surface Water Background vs. OJ? SW Stations



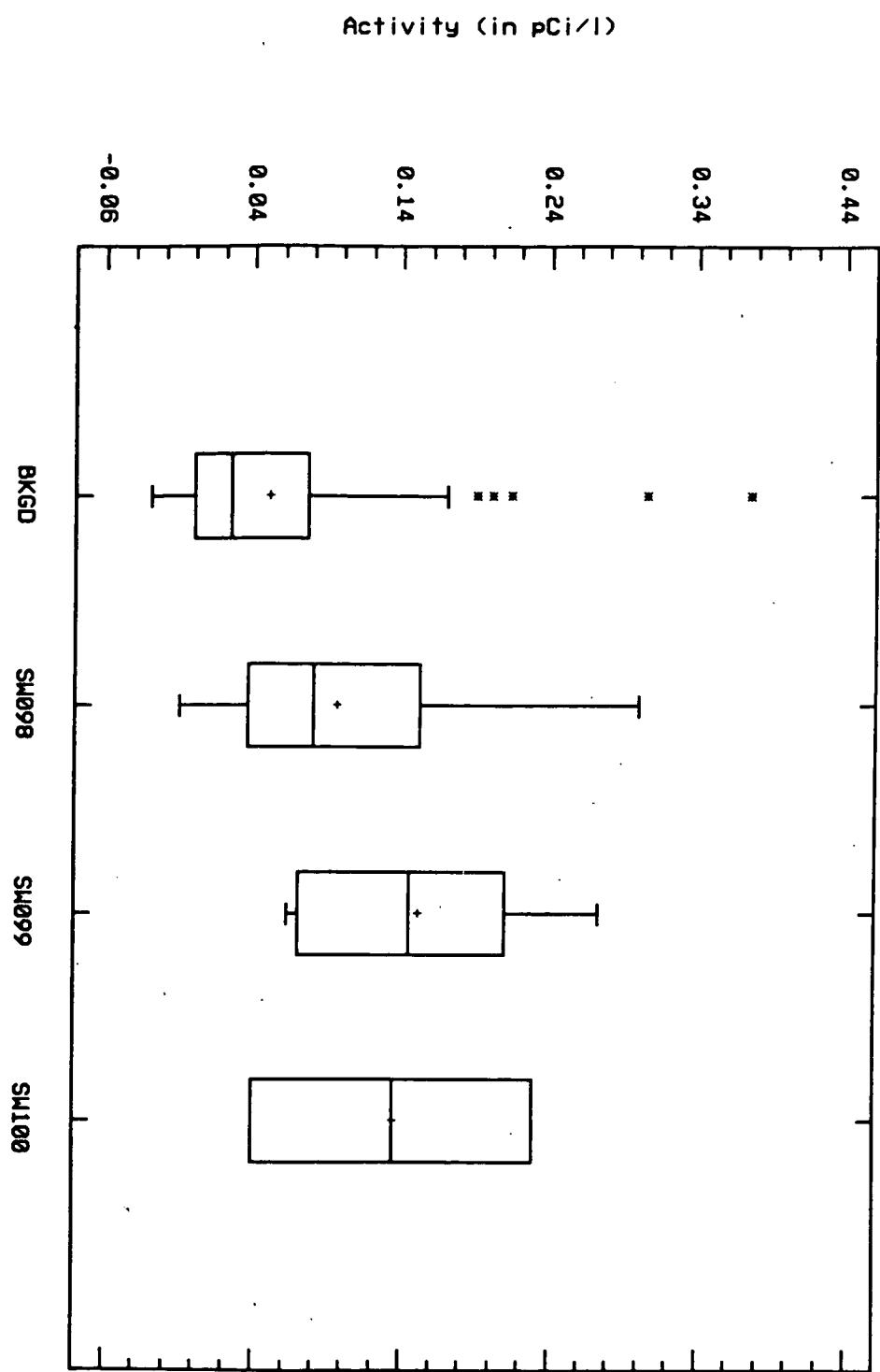
Tritium (Total): Surface Water
Background vs. OUT SW Stations



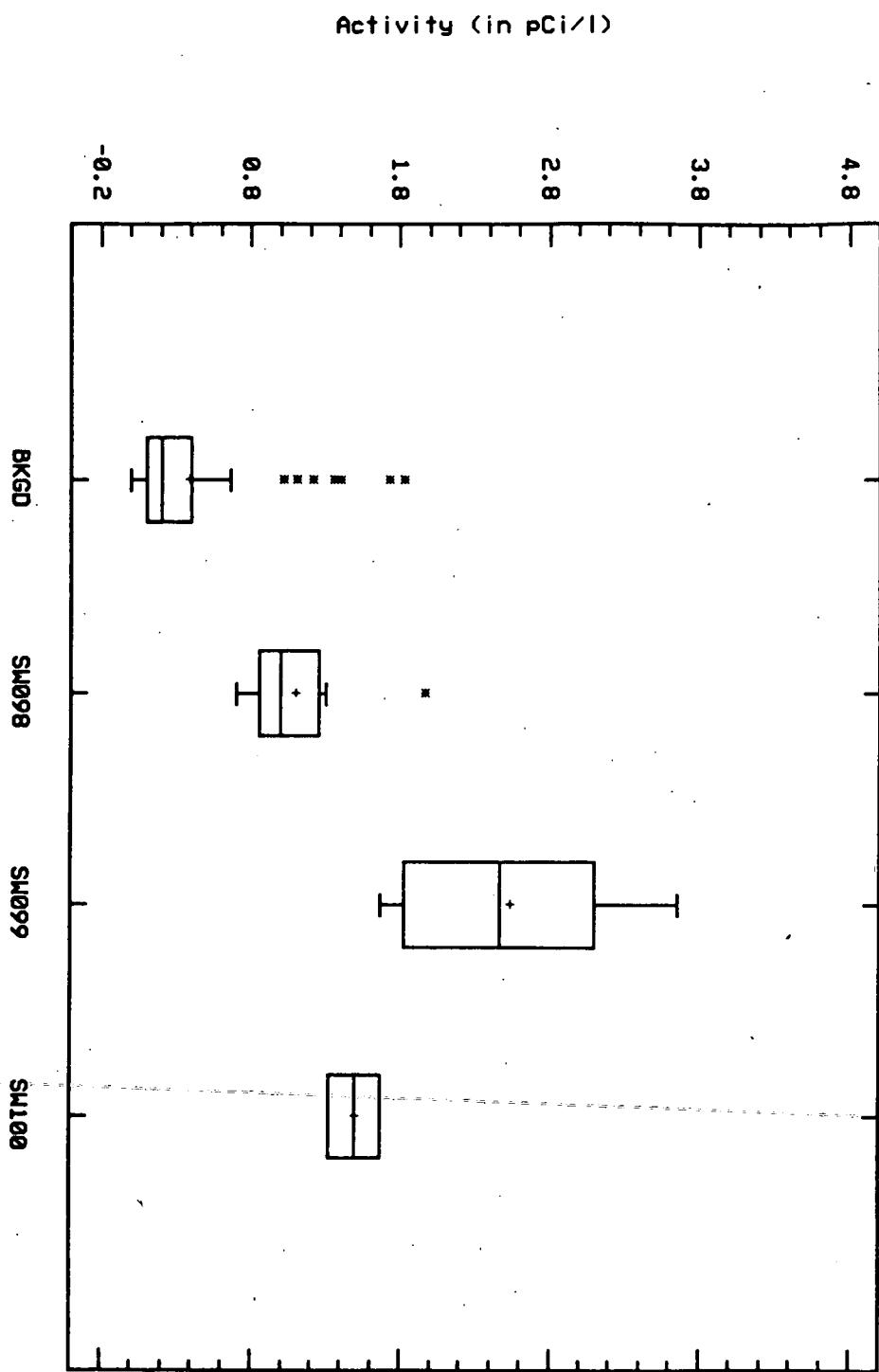
Uranium-233,234 (Total): Surface Water
Background vs. OU7 SW Stations



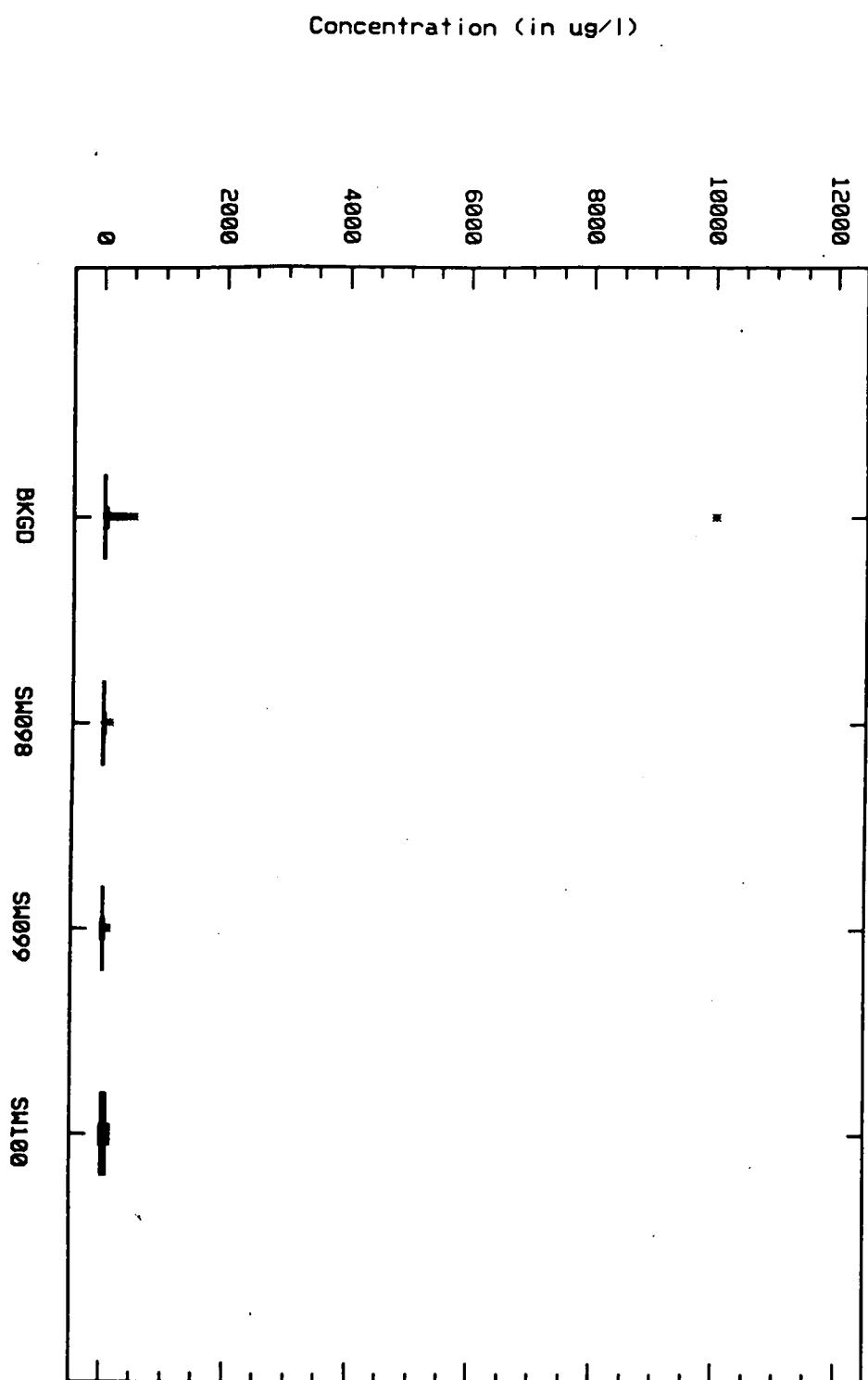
Uranium-235 (Total): Surface Water
Background vs. OUT SW Stations



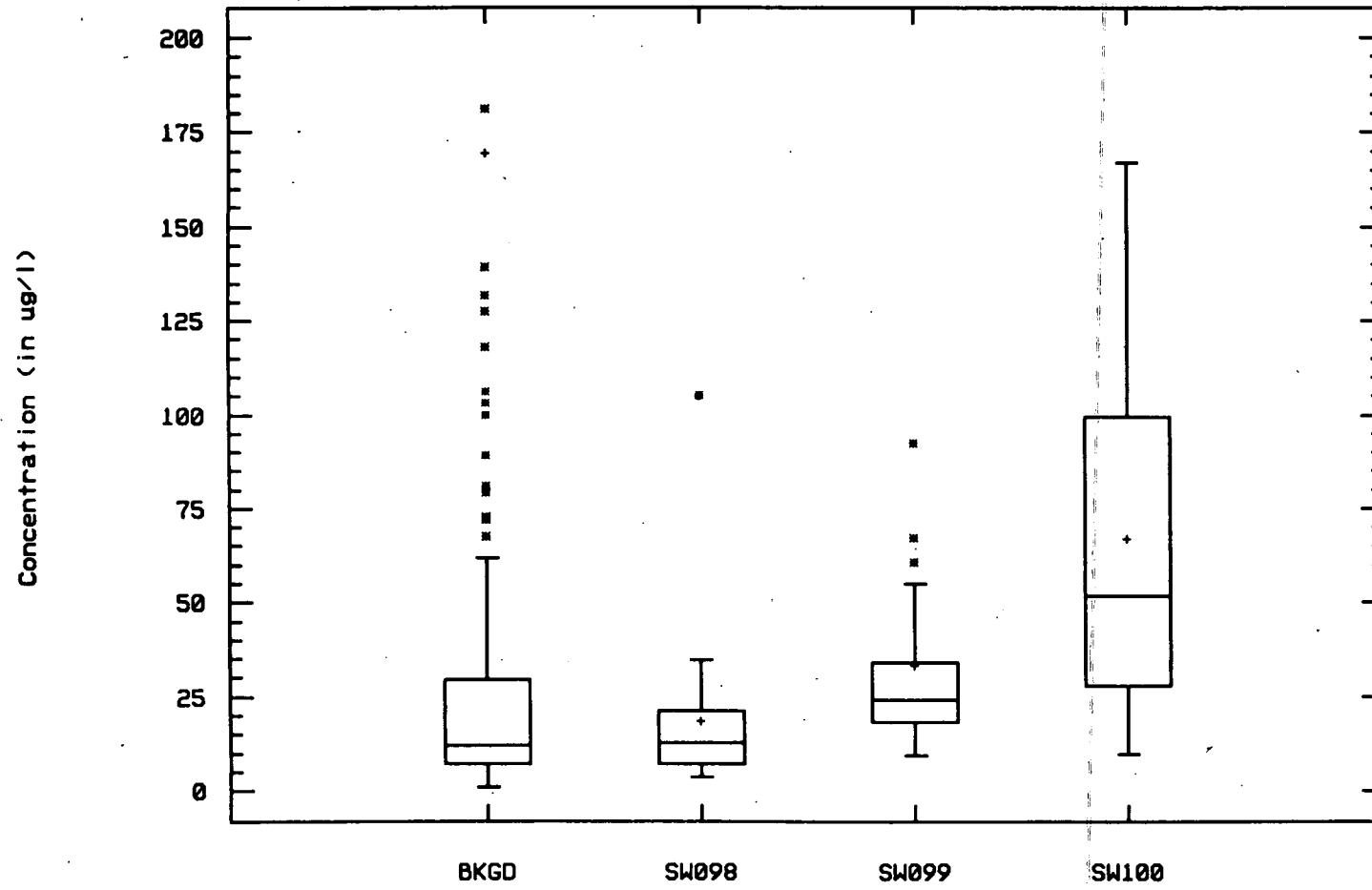
Uranium-238 (Total): Surface Water
Background vs. OJ7 SW Stations



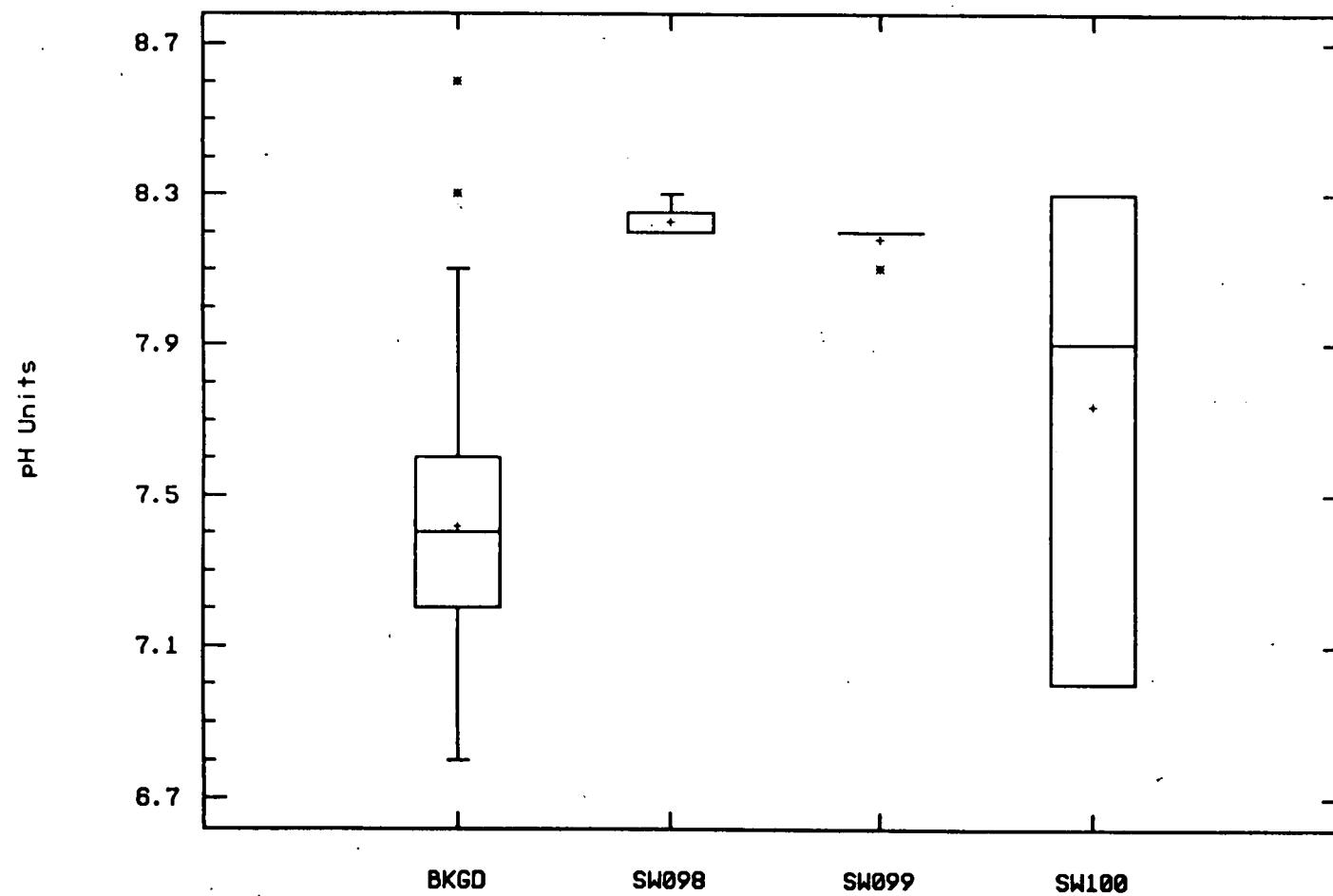
Zinc (Total): Surface Water
Background vs. 0U7 SW Stations



Zinc (Total): Surface Water
Background vs. OU7 SW Stations



pH (Total): Surface Water
Background vs. OU7 SW Stations



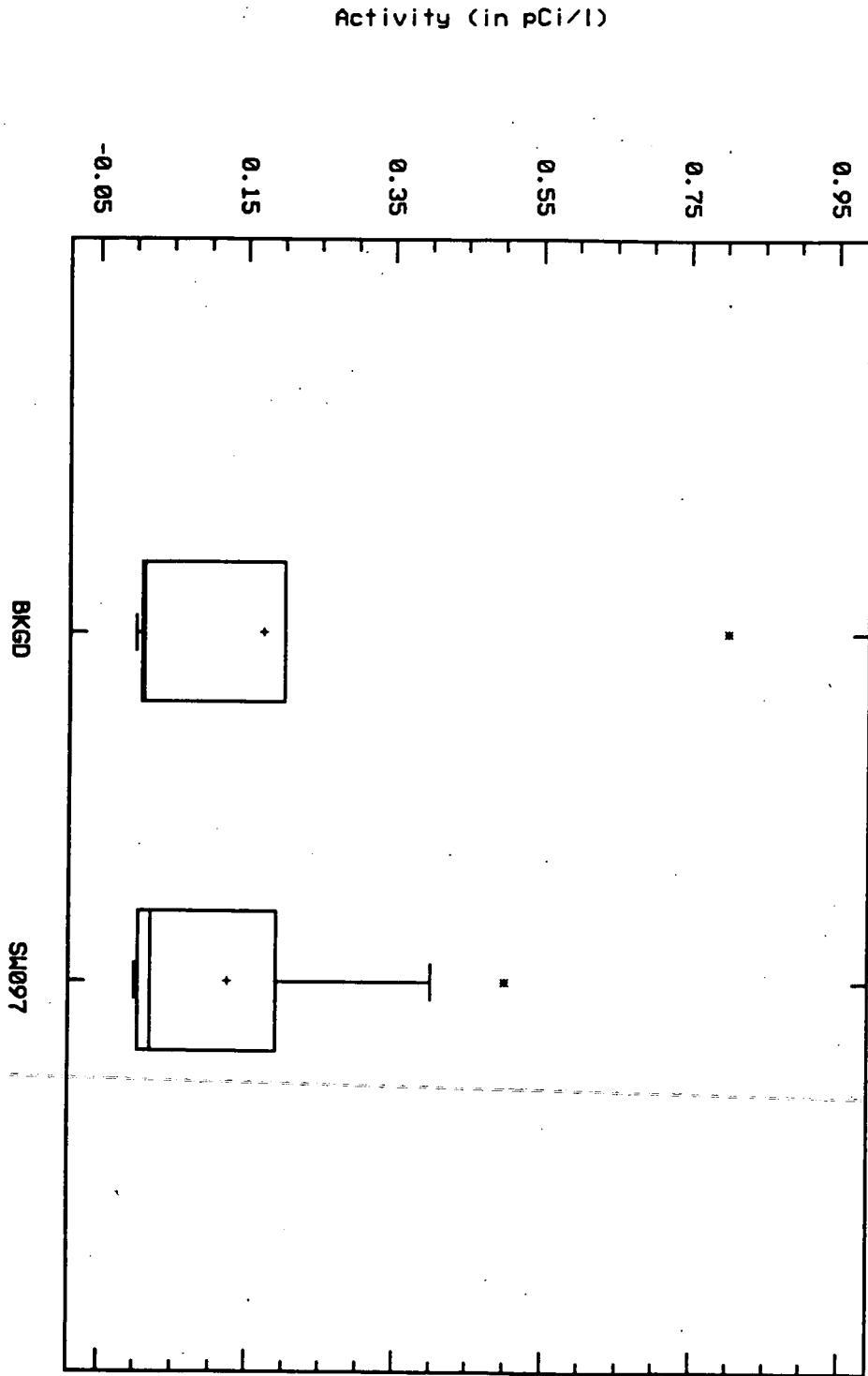
Seep Water

(Dissolved)

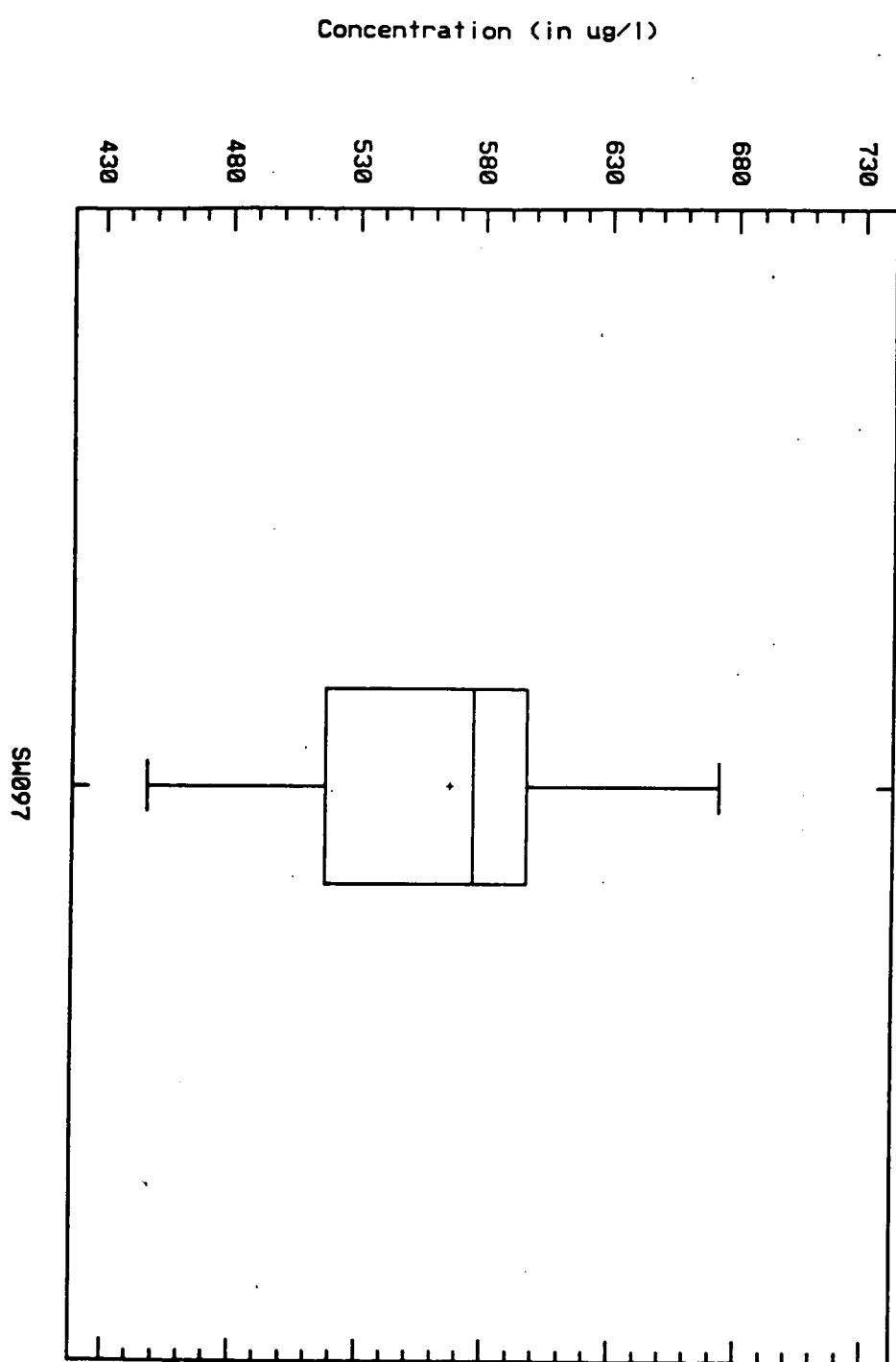
Background vs. OU 7

1000

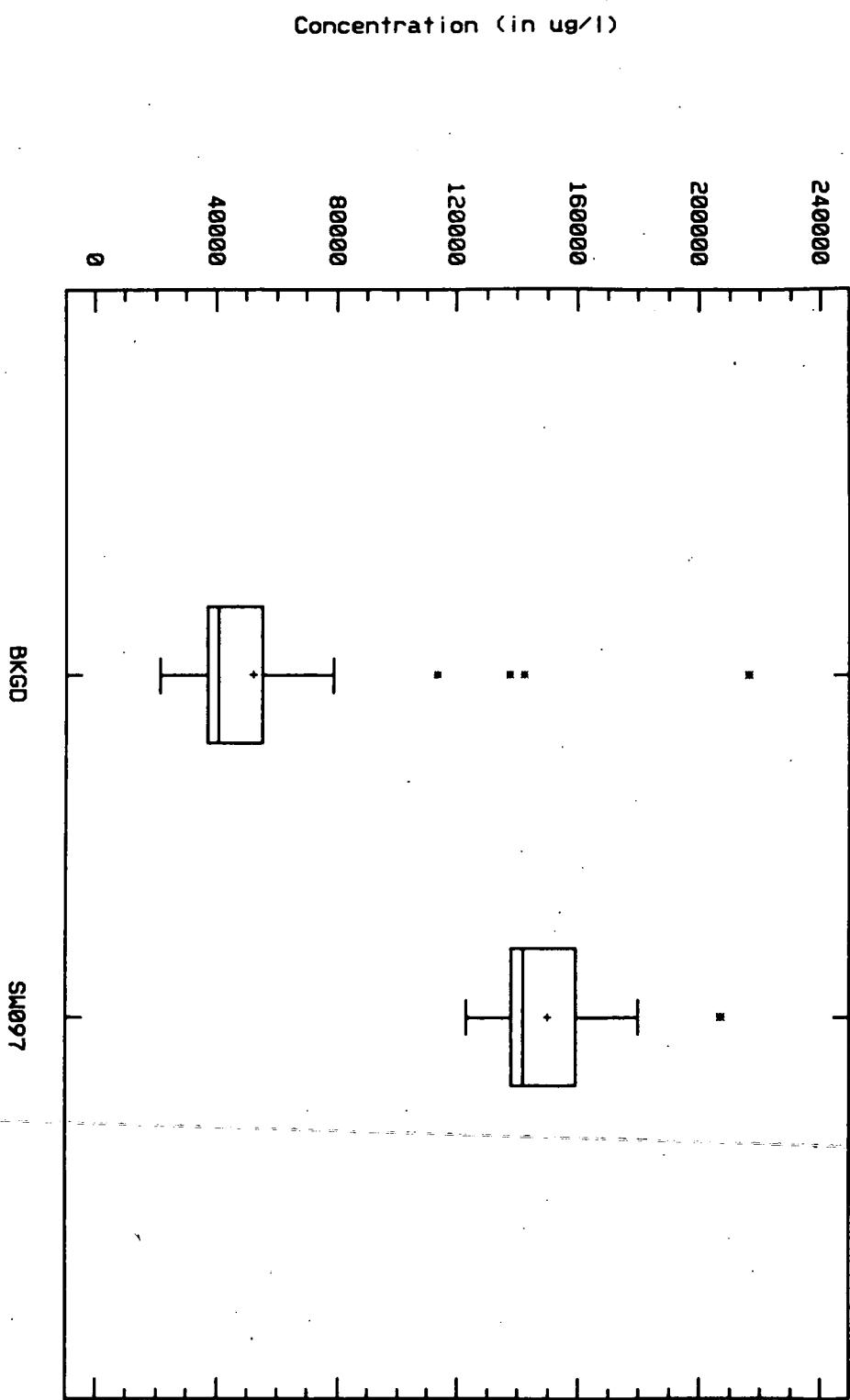
Americium-241 (Dissolved): Seep Water
Background vs. OUT



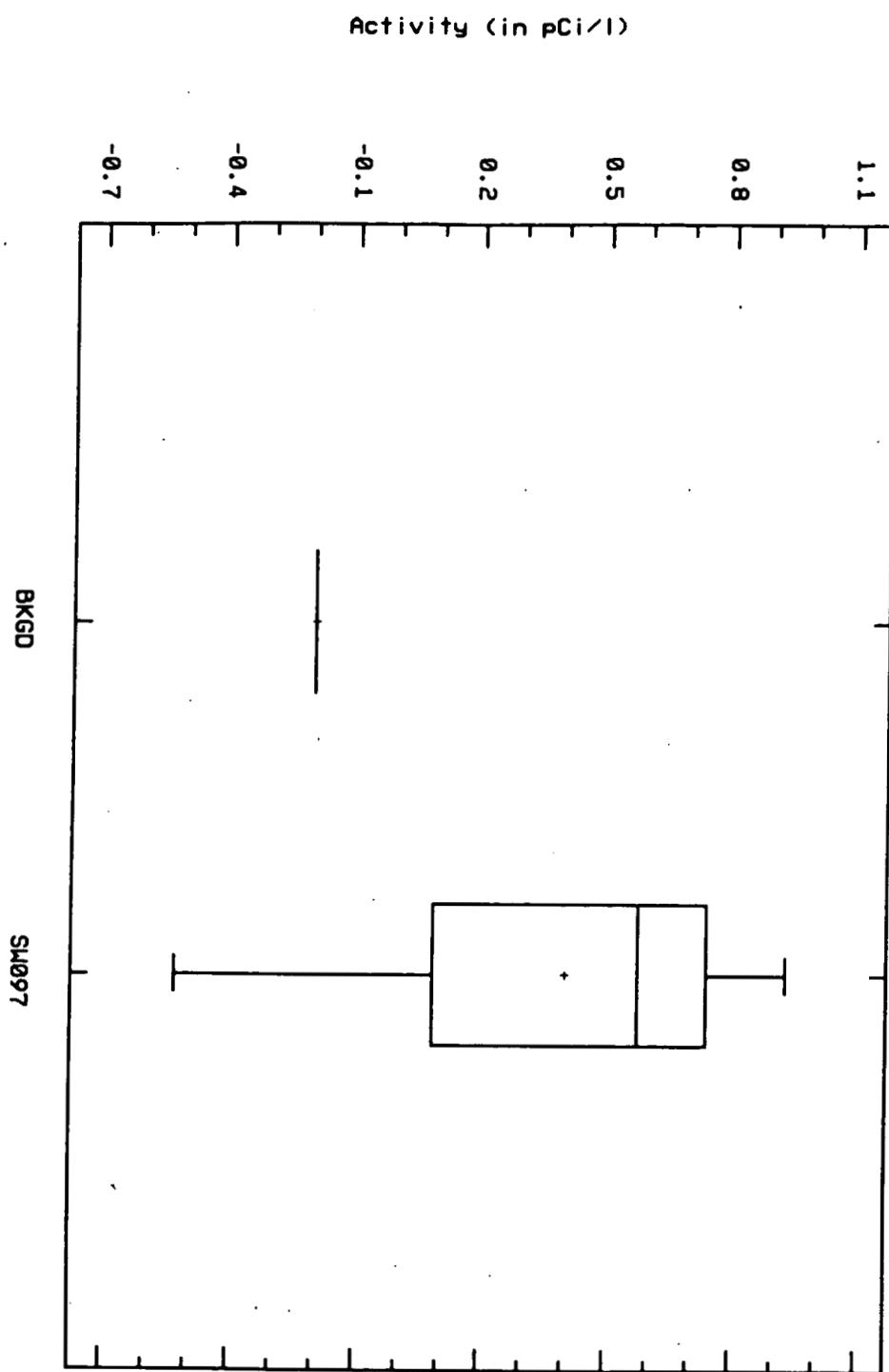
Barium (Dissolved): Seep Water
Background vs. 0U7



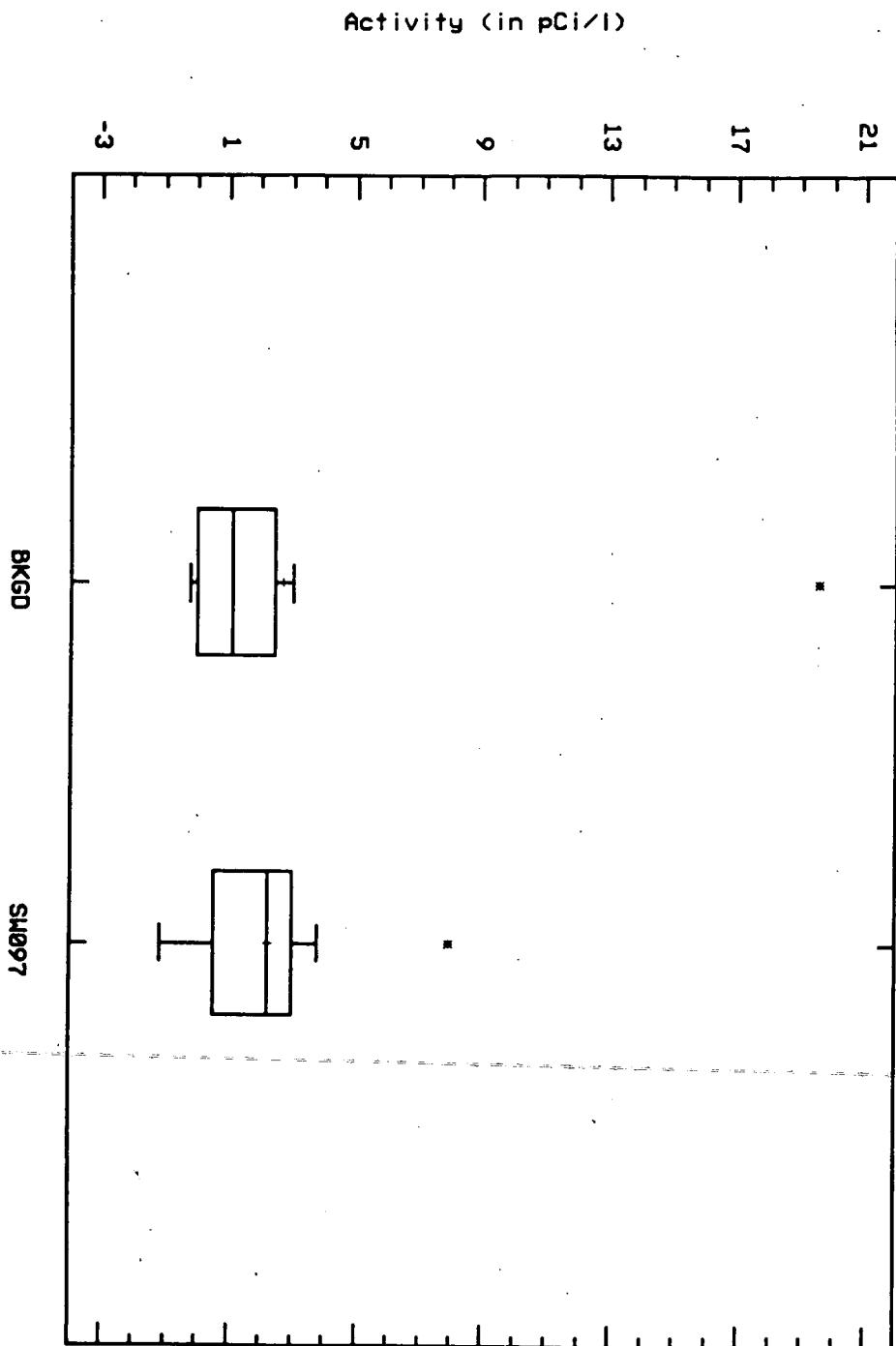
Calcium (Dissolved): Seep Water
Background vs. 0U7



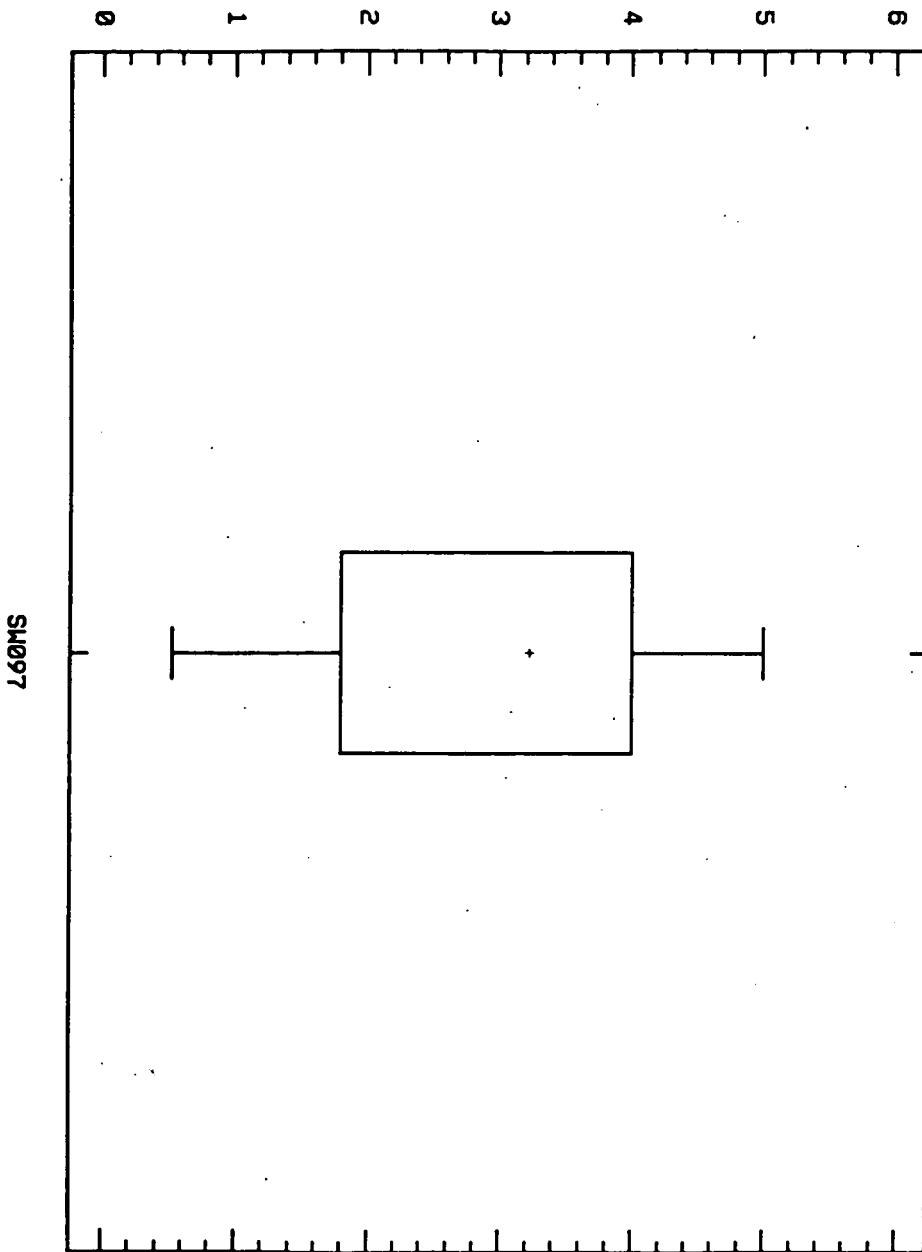
Cesium-137 (Dissolved): Seep Water
Background vs. OU7



Gross Alpha (Dissolved): Seep Water
Background vs. OUT

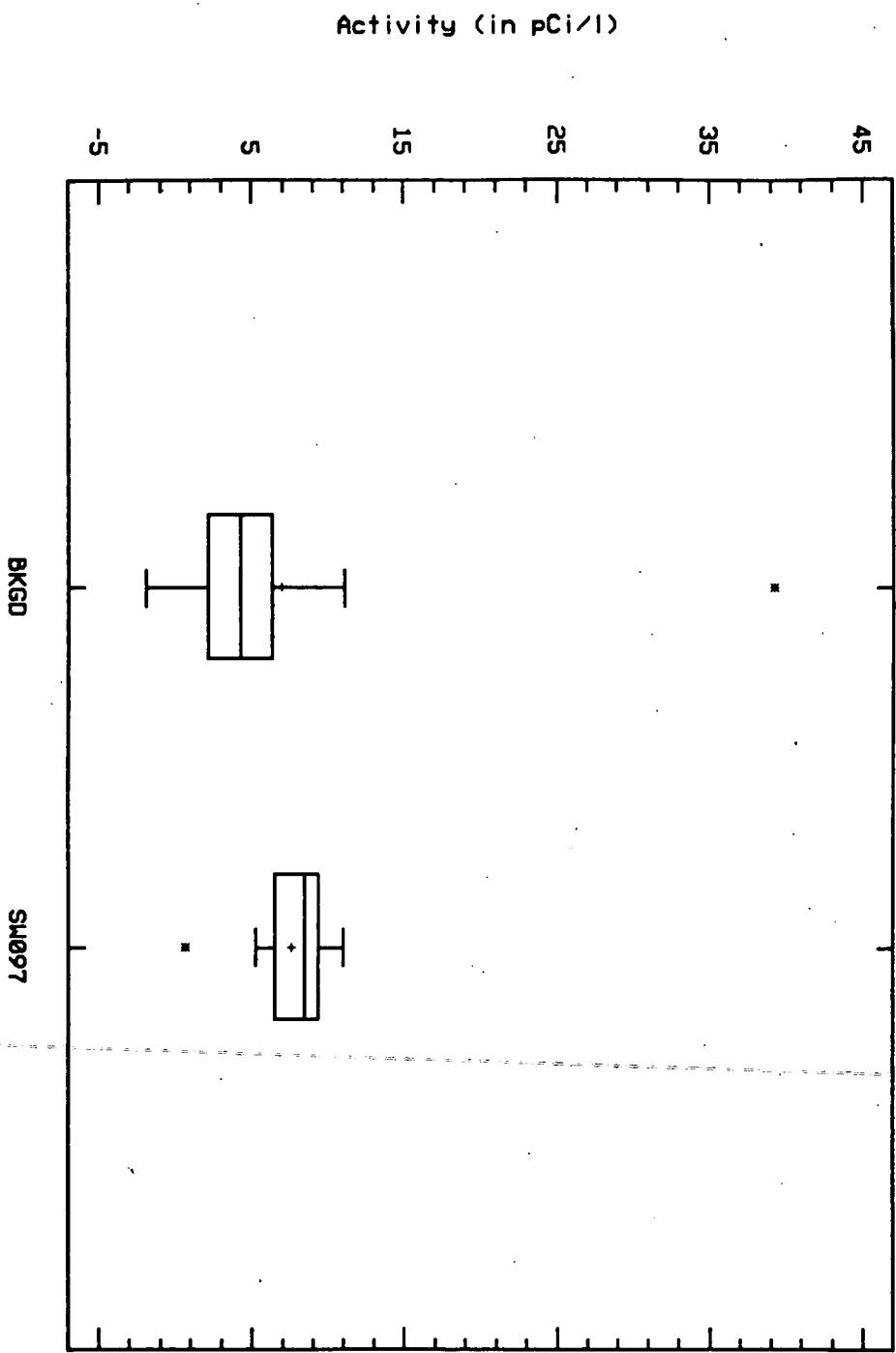


Activity (in pCi/l)

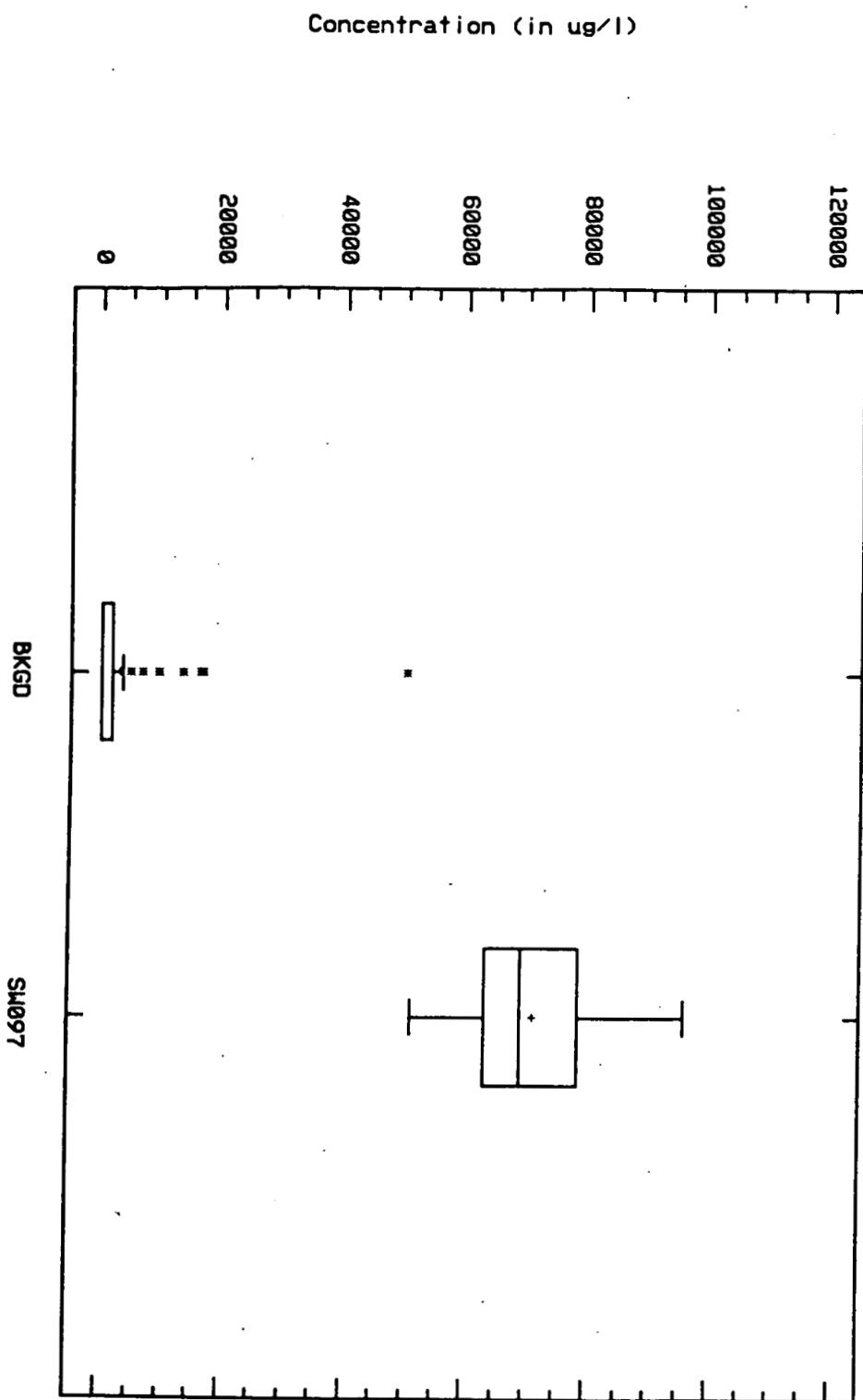


Gross Alpha-Sus (Dissolved): Seep Water
Background vs. OUT

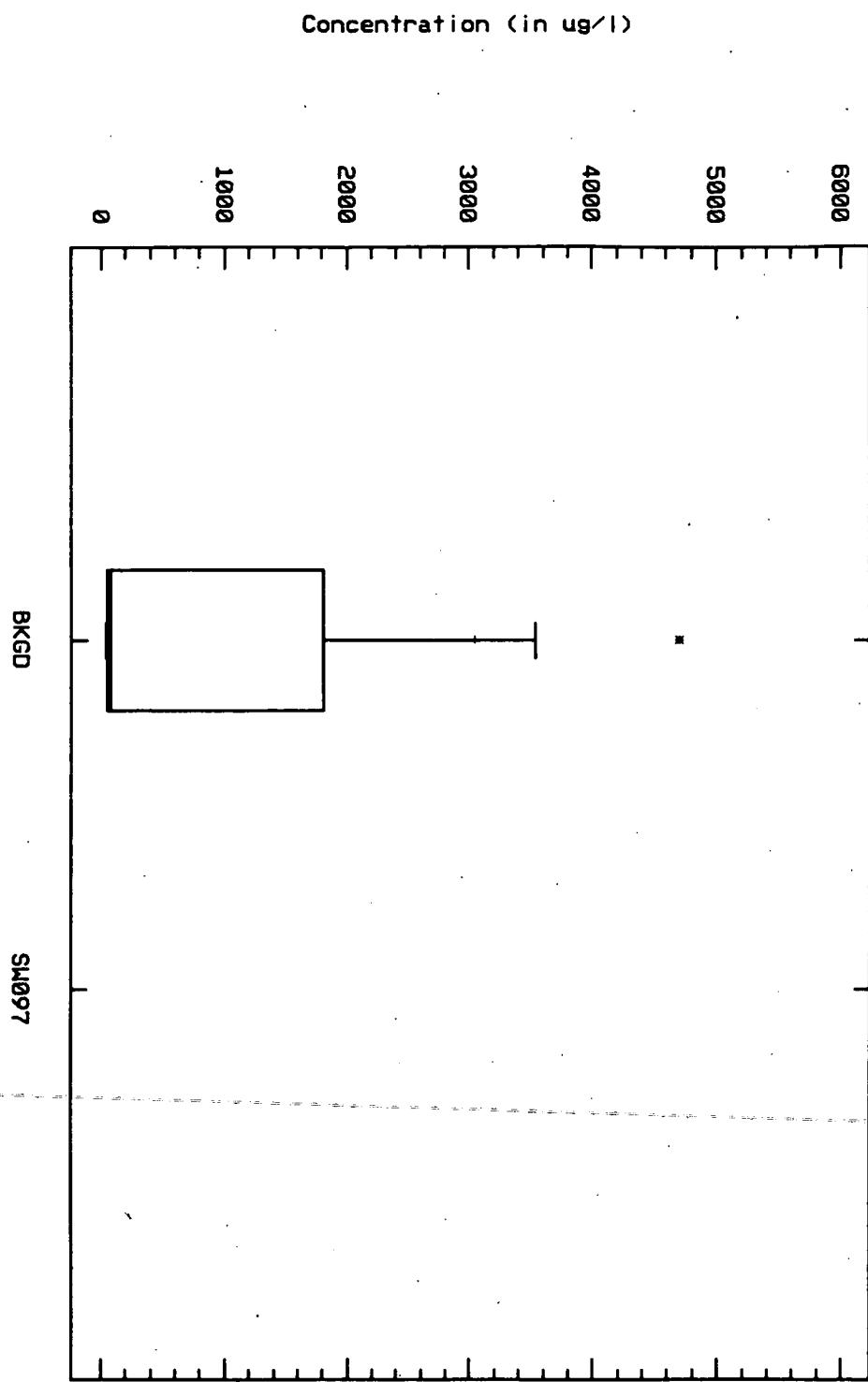
Gross Beta (Dissolved): Seep Water
Background vs. OUT



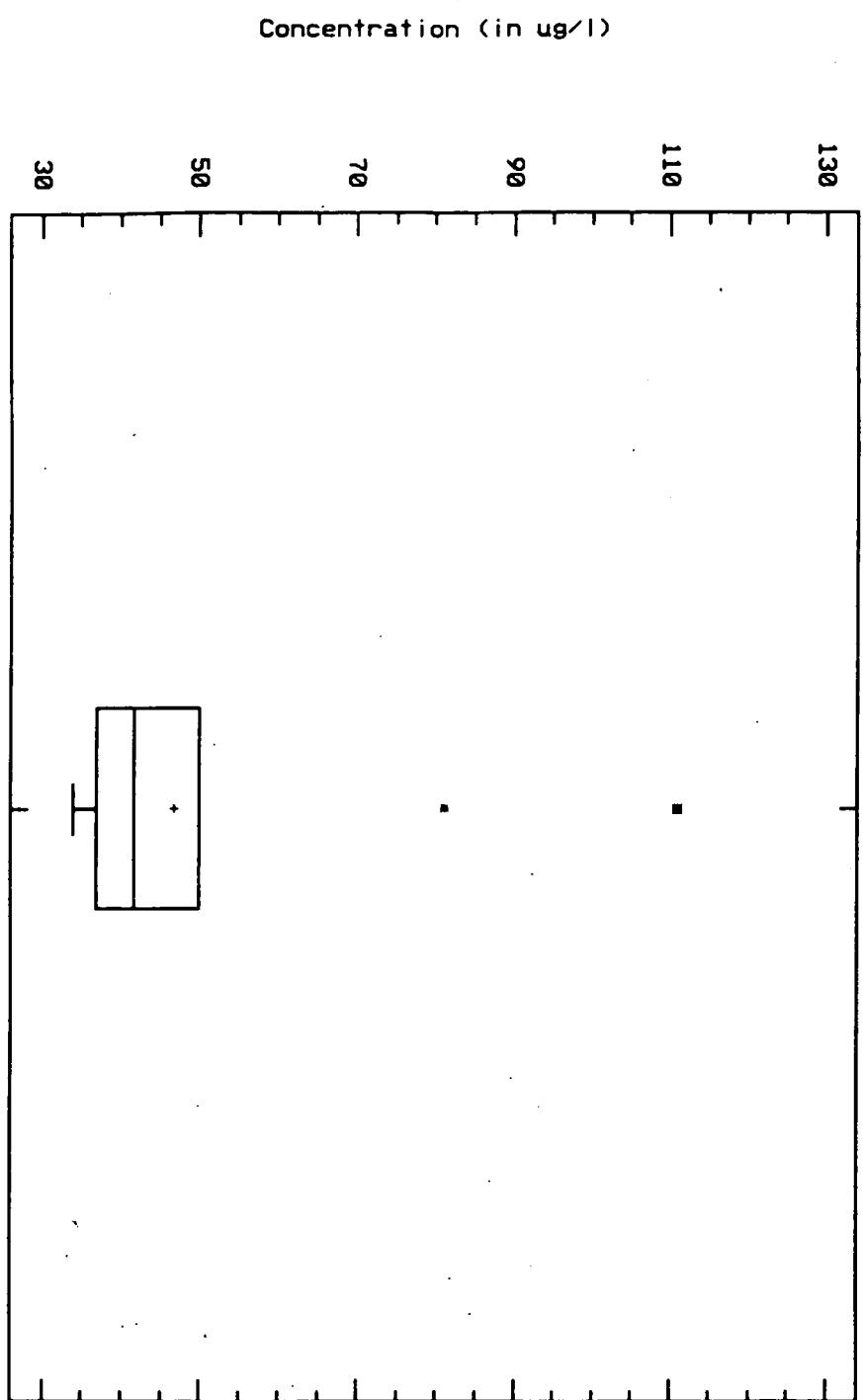
Iron (Dissolved): Seep Water
Background vs. OUT



Iron (Dissolved): Seep Water
Background vs. OUT



Lithium (Dissolved): Seep Water
Background vs. OUT

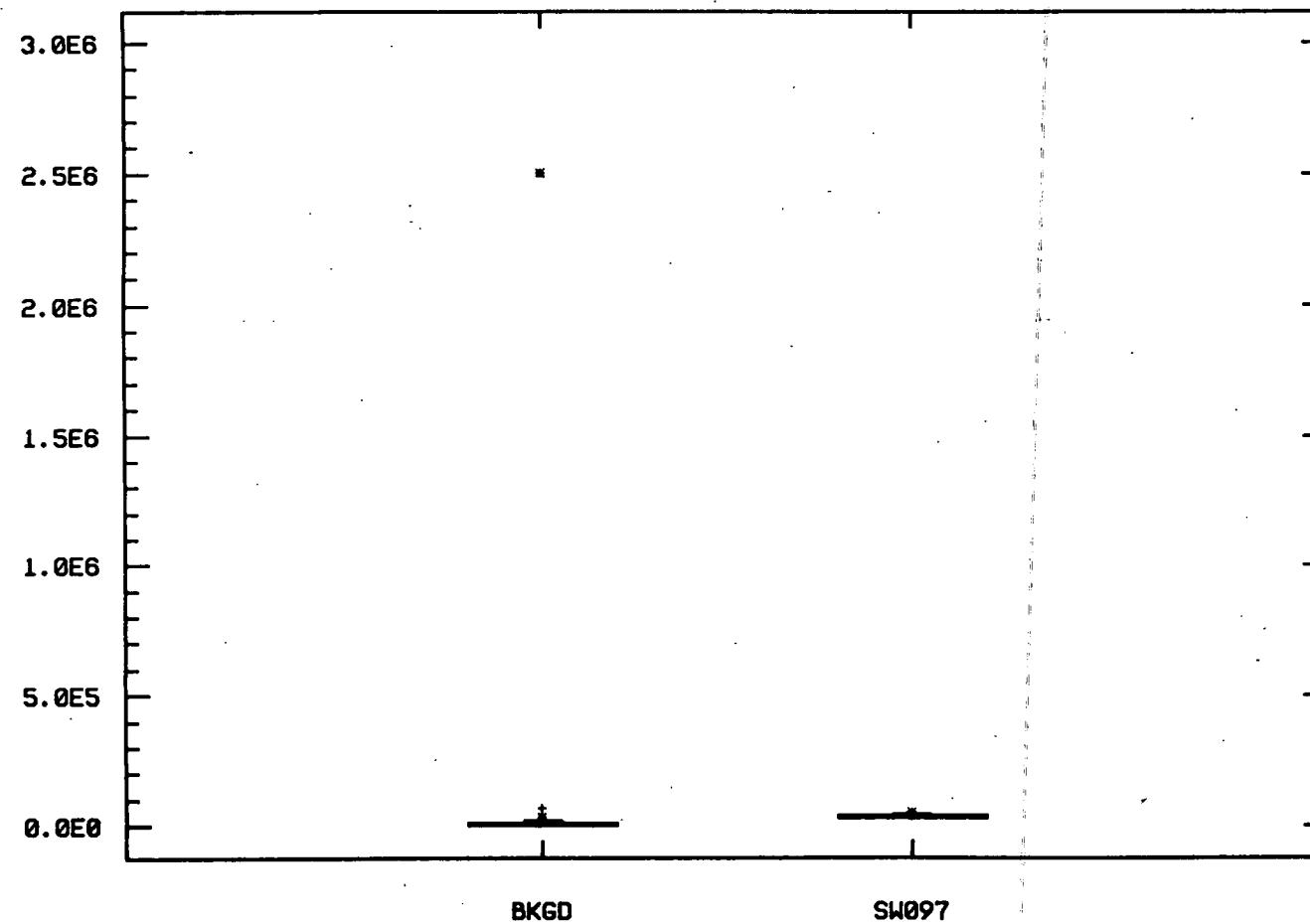


SM097

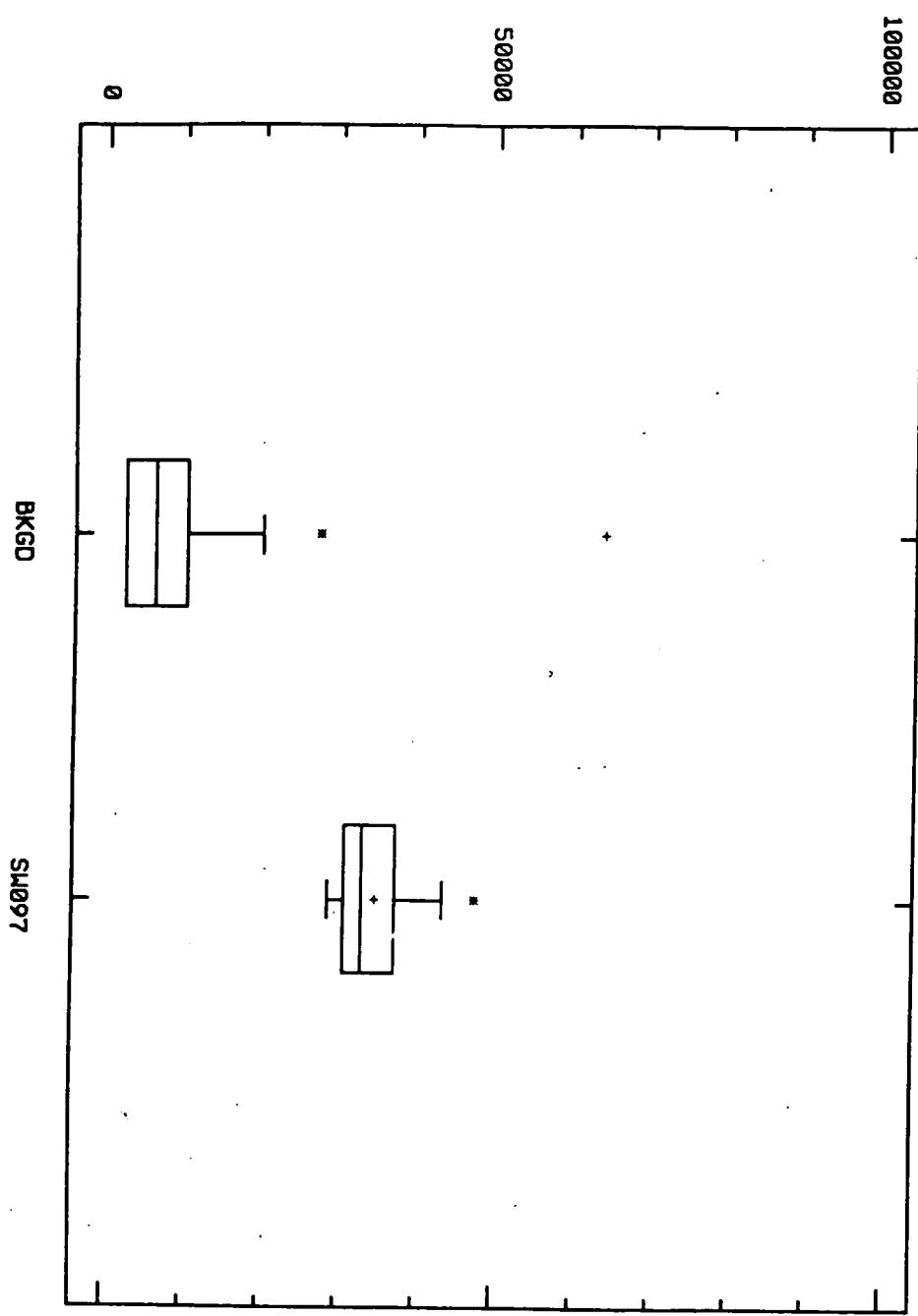
Magnesium (Dissolved): Seep Water

Background vs. 0U7

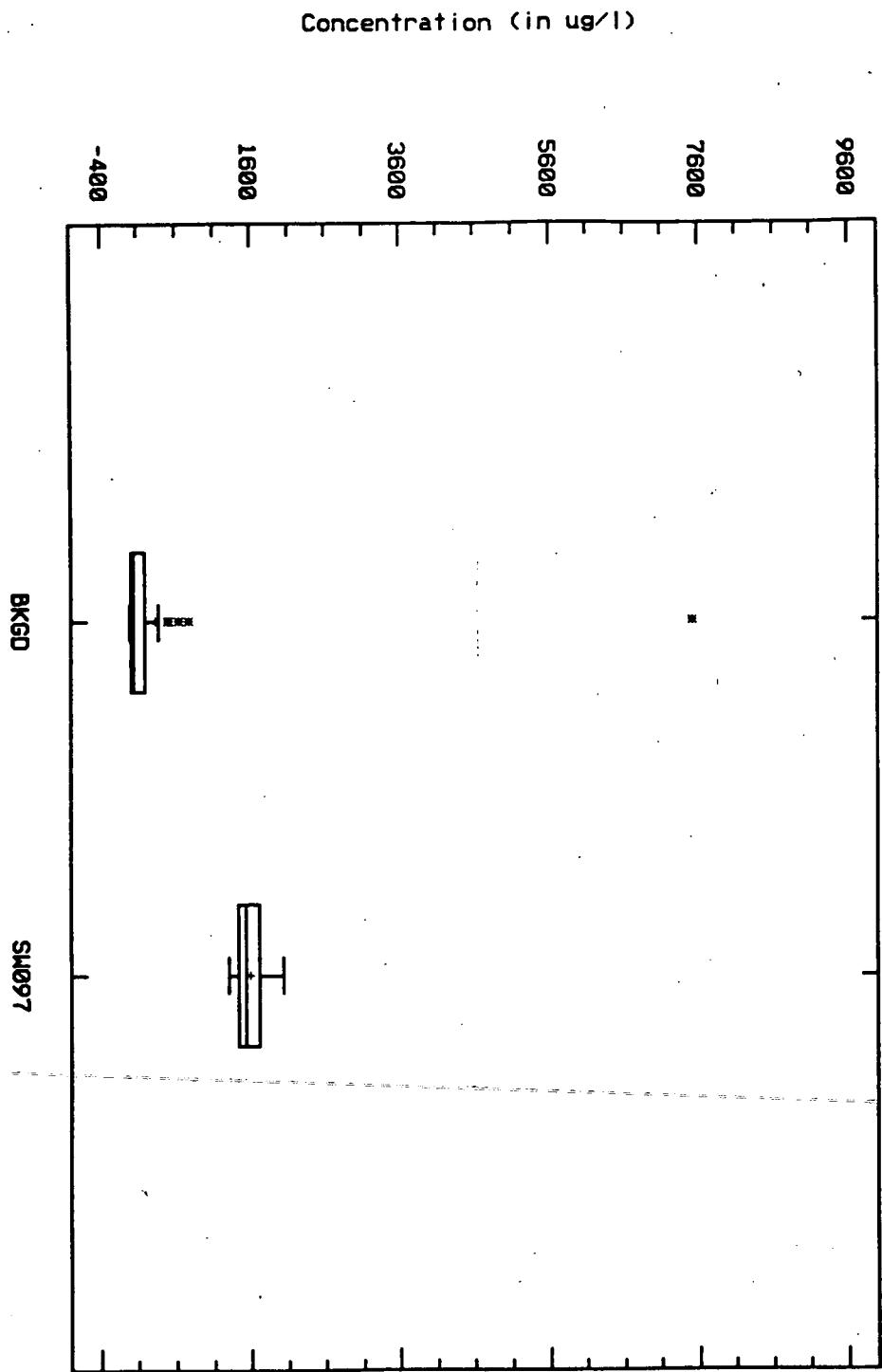
Concentration (in ug/l)



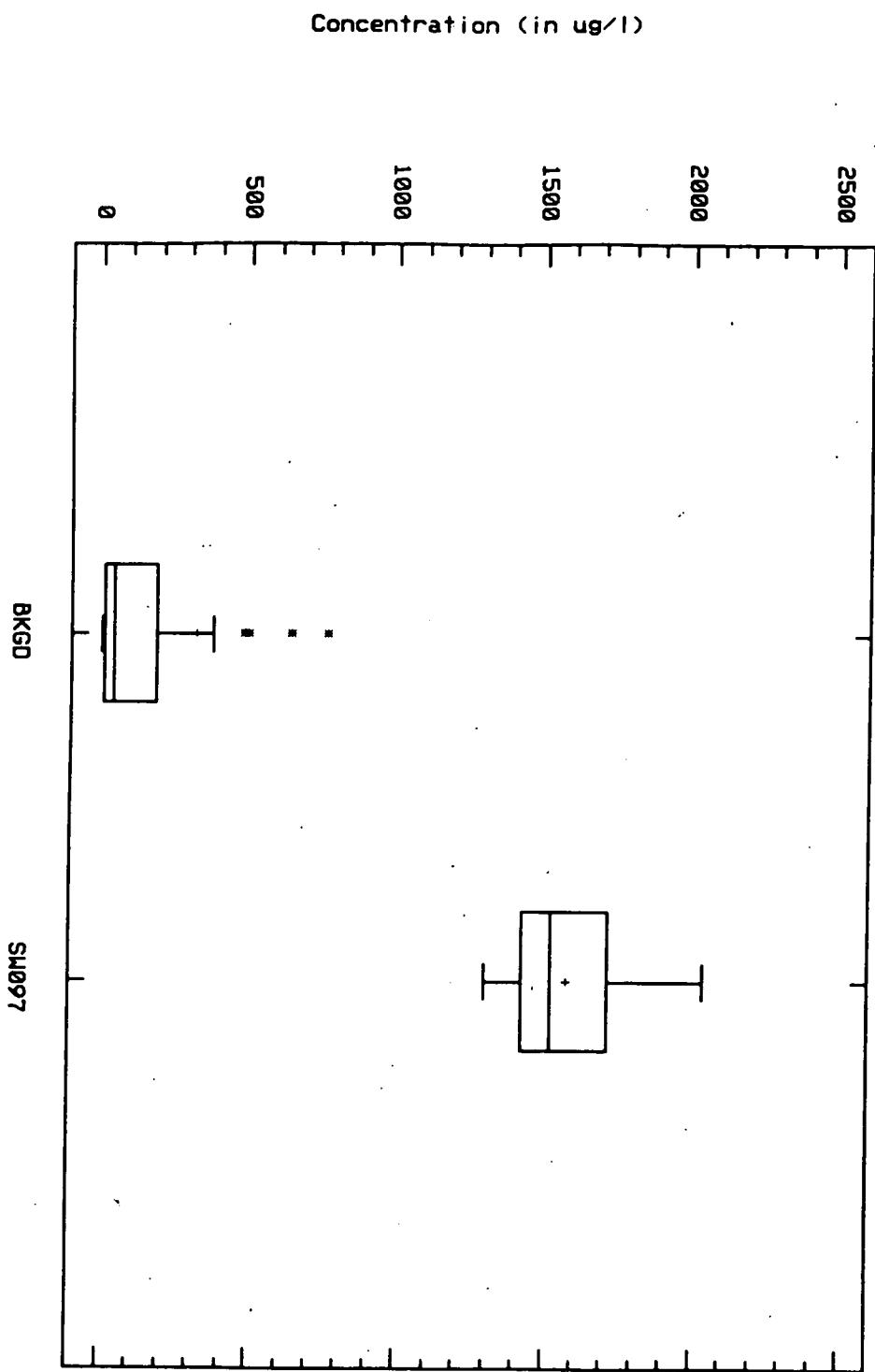
Magnesium (Dissolved): Seep Water
Background vs. OUT



Manganese (Dissolved): Seep Water
Background vs. 0U7

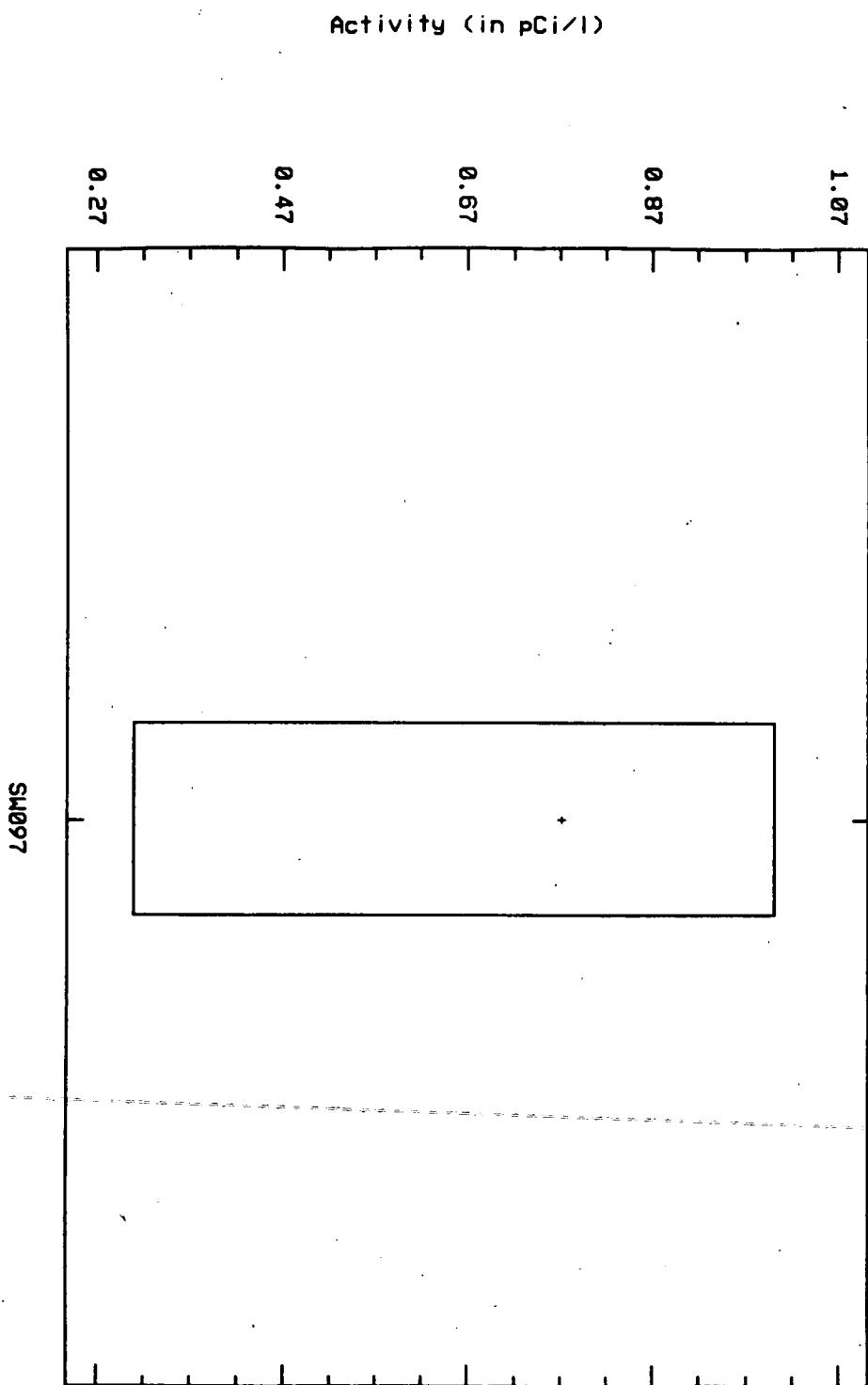


Manganese (Dissolved): Seep Water
Background vs. 0U7



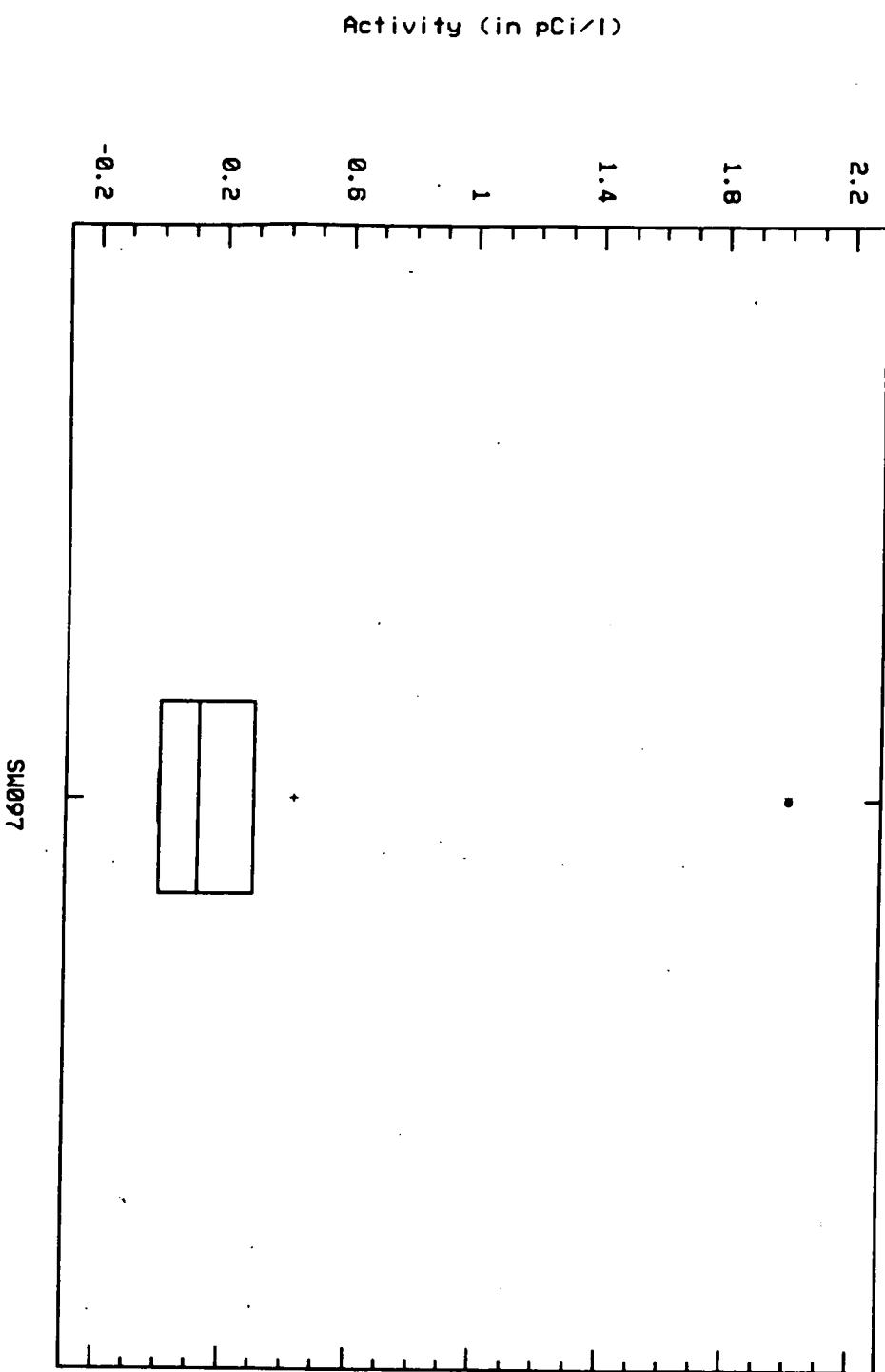
Neptunium-237 (Dissolved): Seep Water

Background vs. OUT

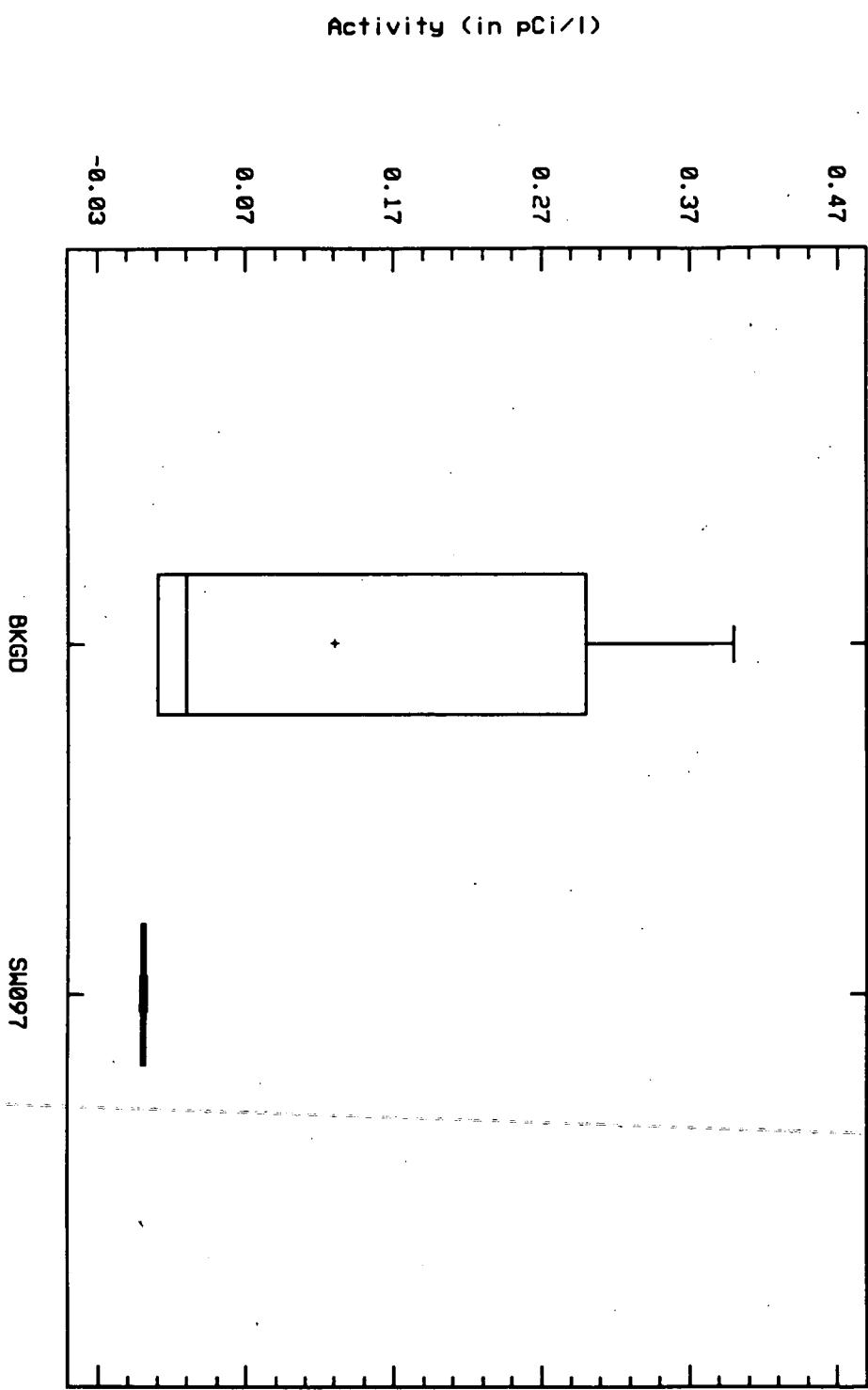


Plutonium-239 (Dissolved): Seep Water

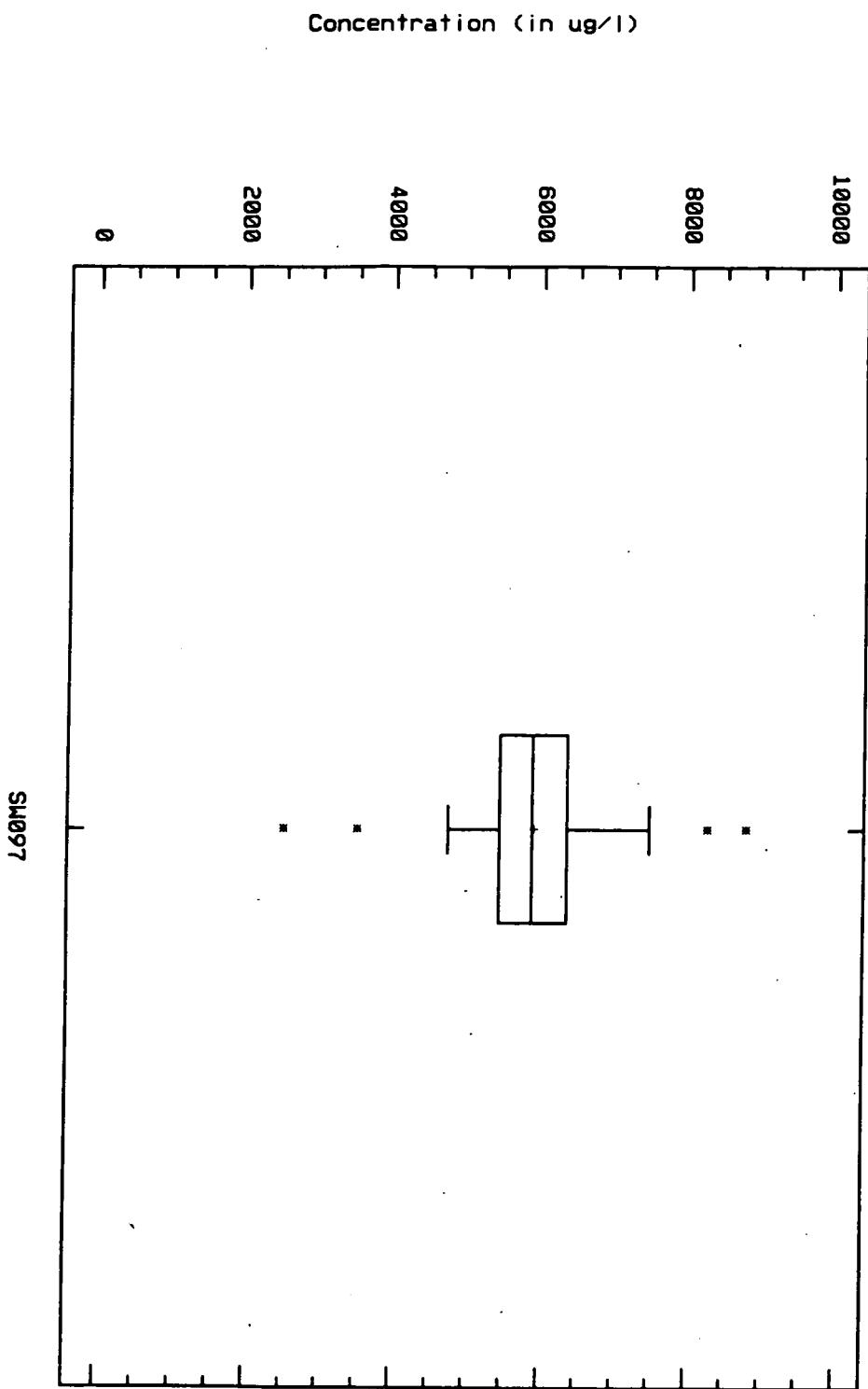
Background vs. OUT



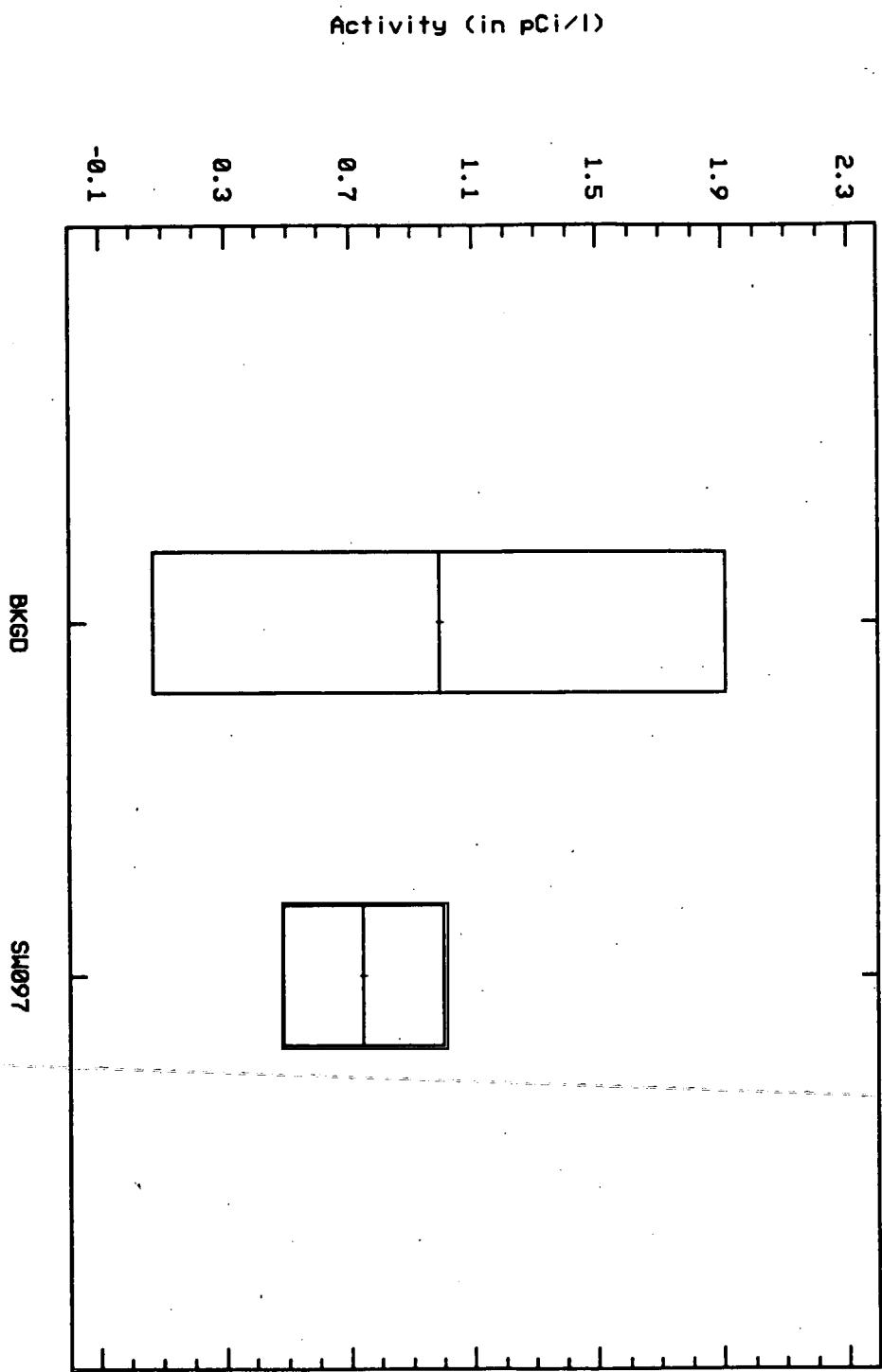
Plutonium-239/240 Dissolved: Seep Water
Background vs. DUT



Potassium (Dissolved): Seep Water
Background vs. 0U7

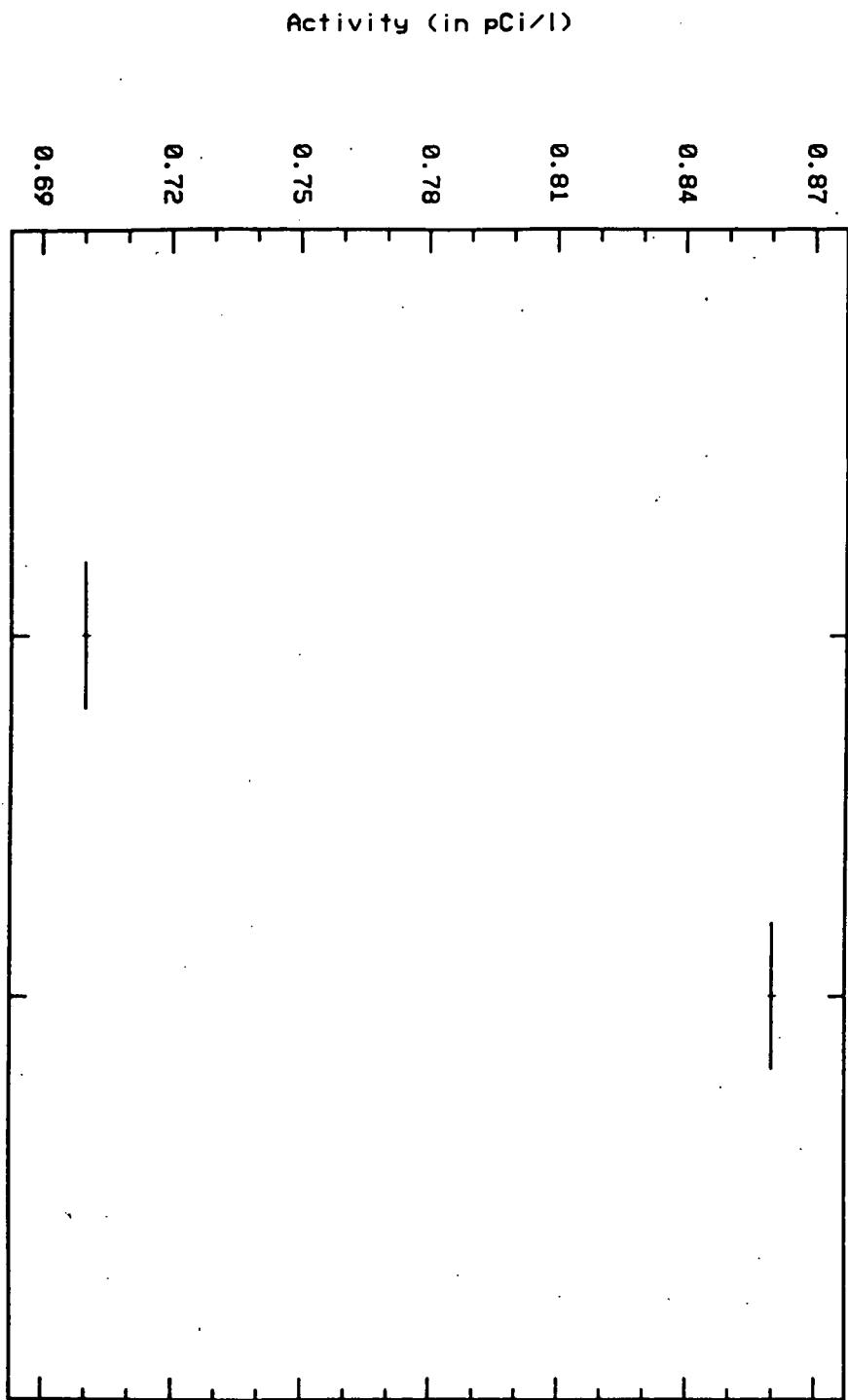


Radium-226 (Dissolved): Seep Water
Background vs. OUT

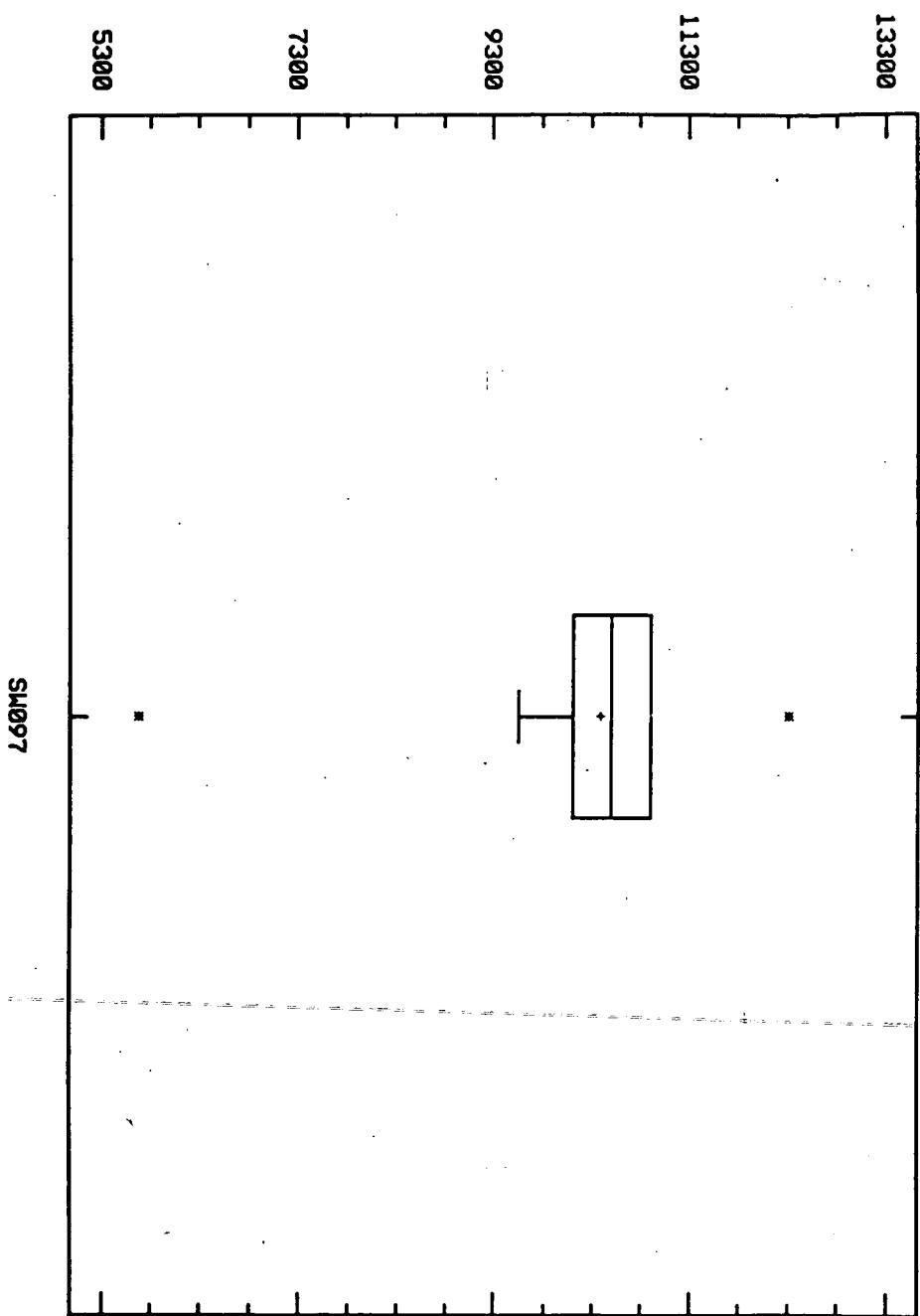


Radium-228 (Dissolved): Seep Water

Background vs. 0U7

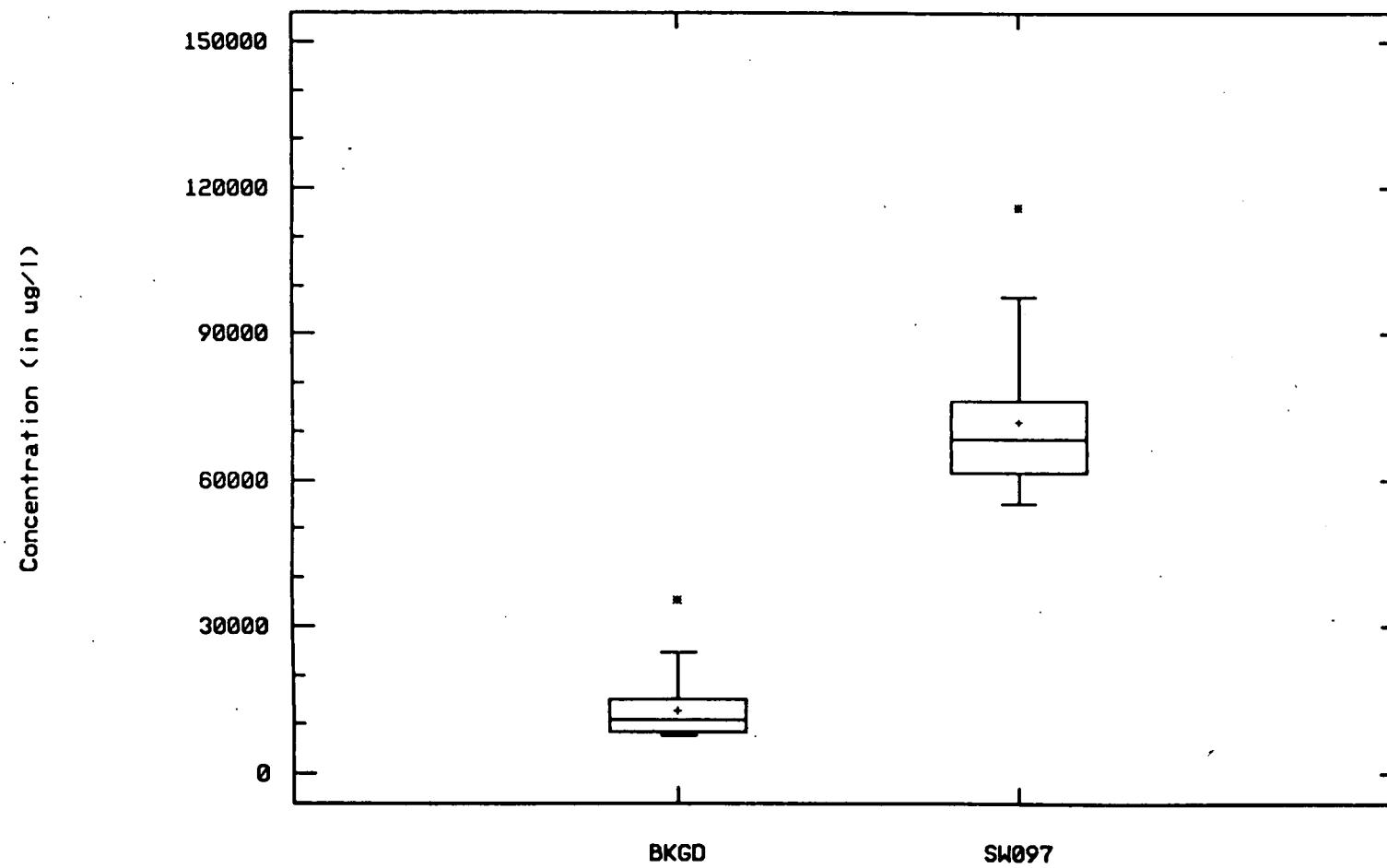


Silicon (Dissolved): Seep Water
Background vs. OUT

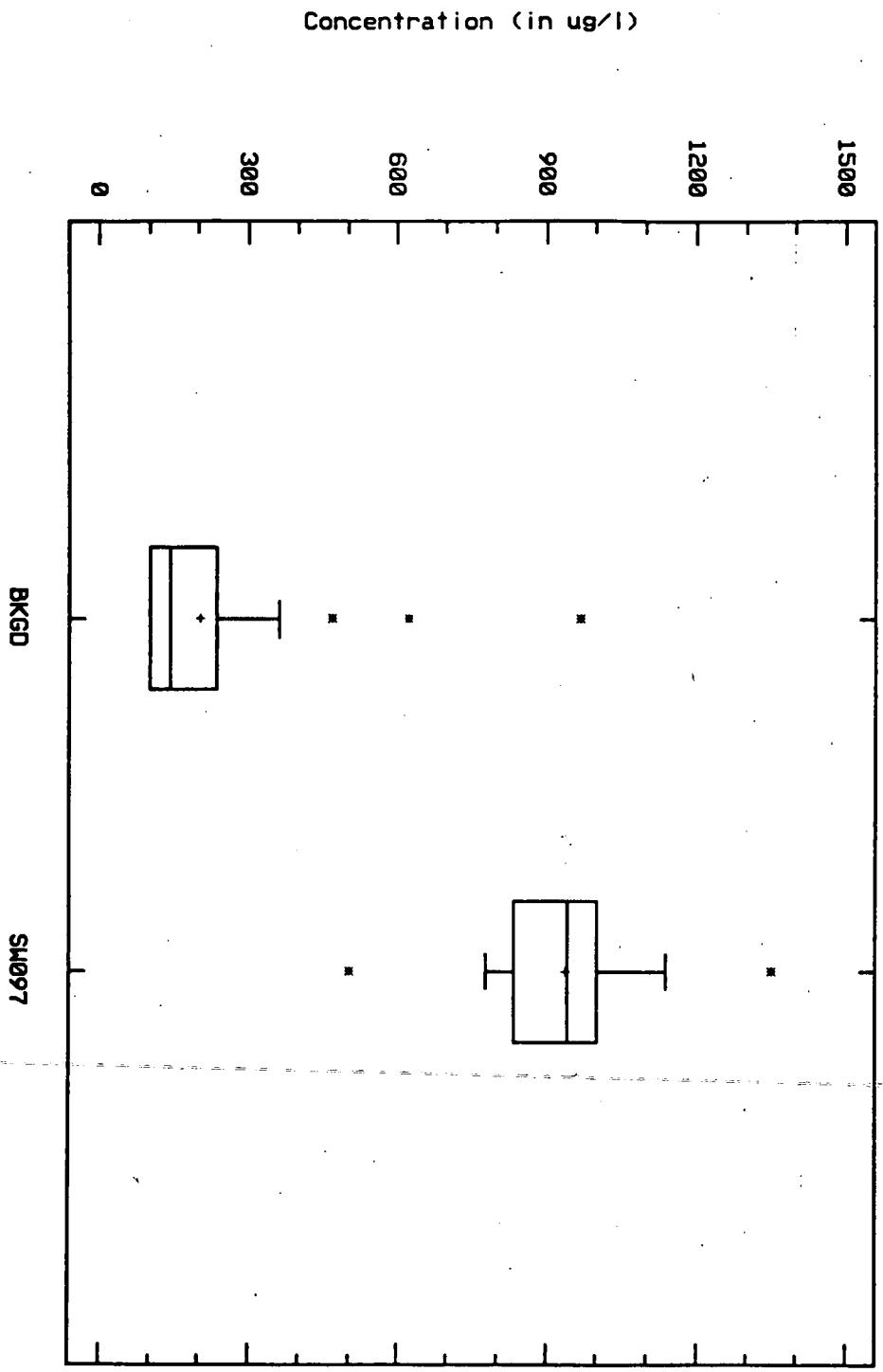


Sodium (Dissolved): Seep Water

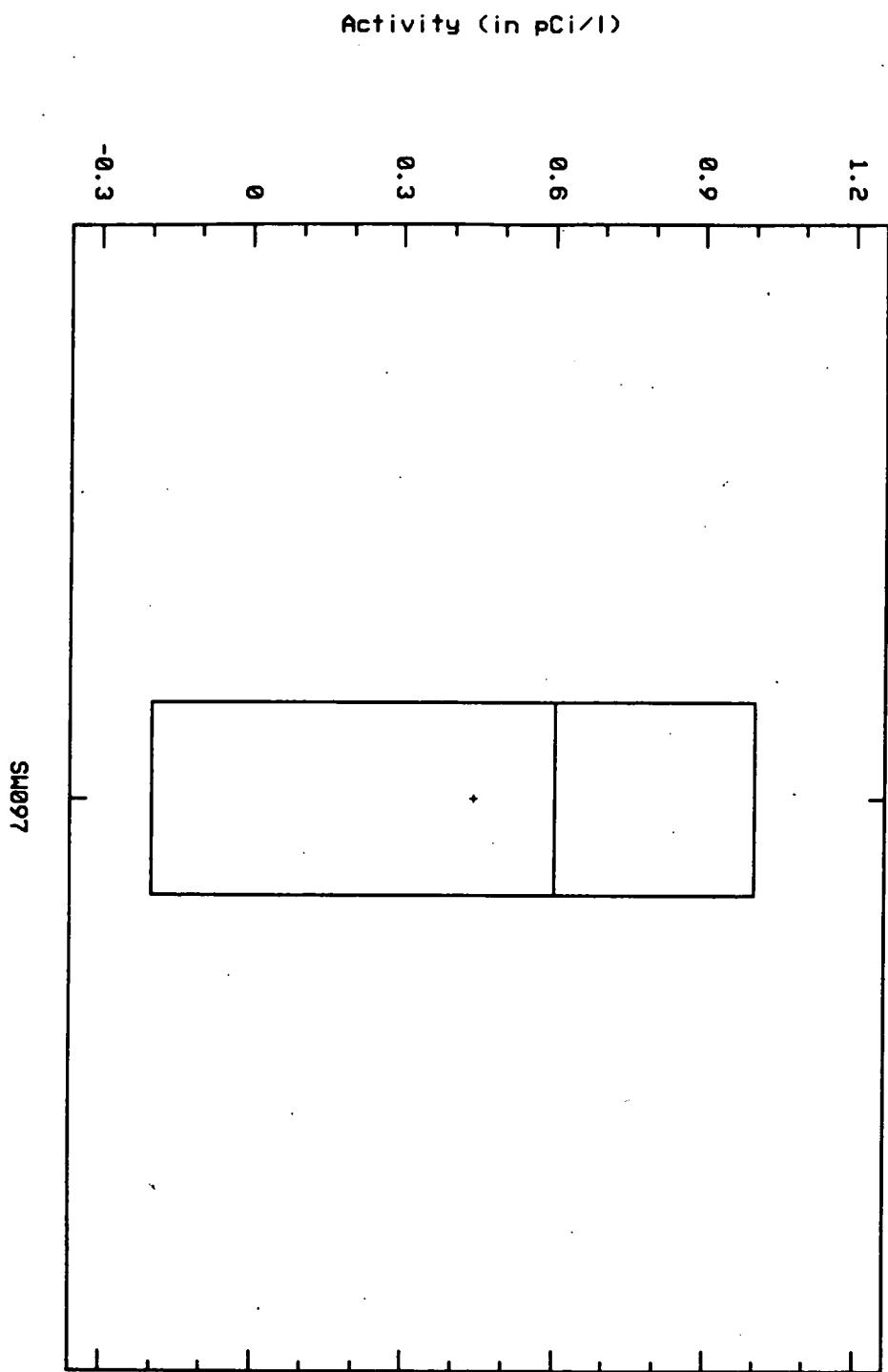
Background vs. OU7



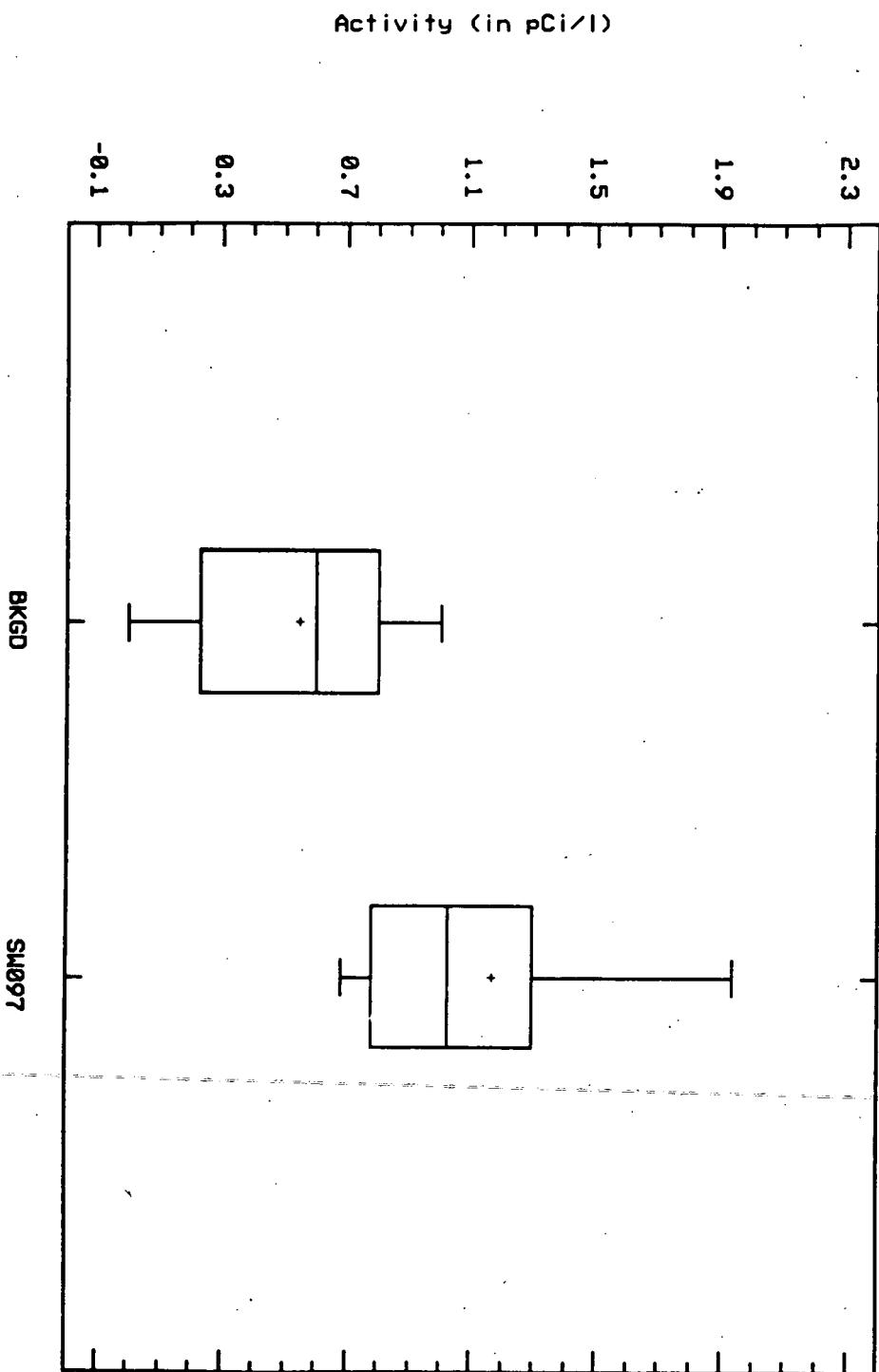
Strontium (Dissolved): Seep Water
Background vs. 0U7



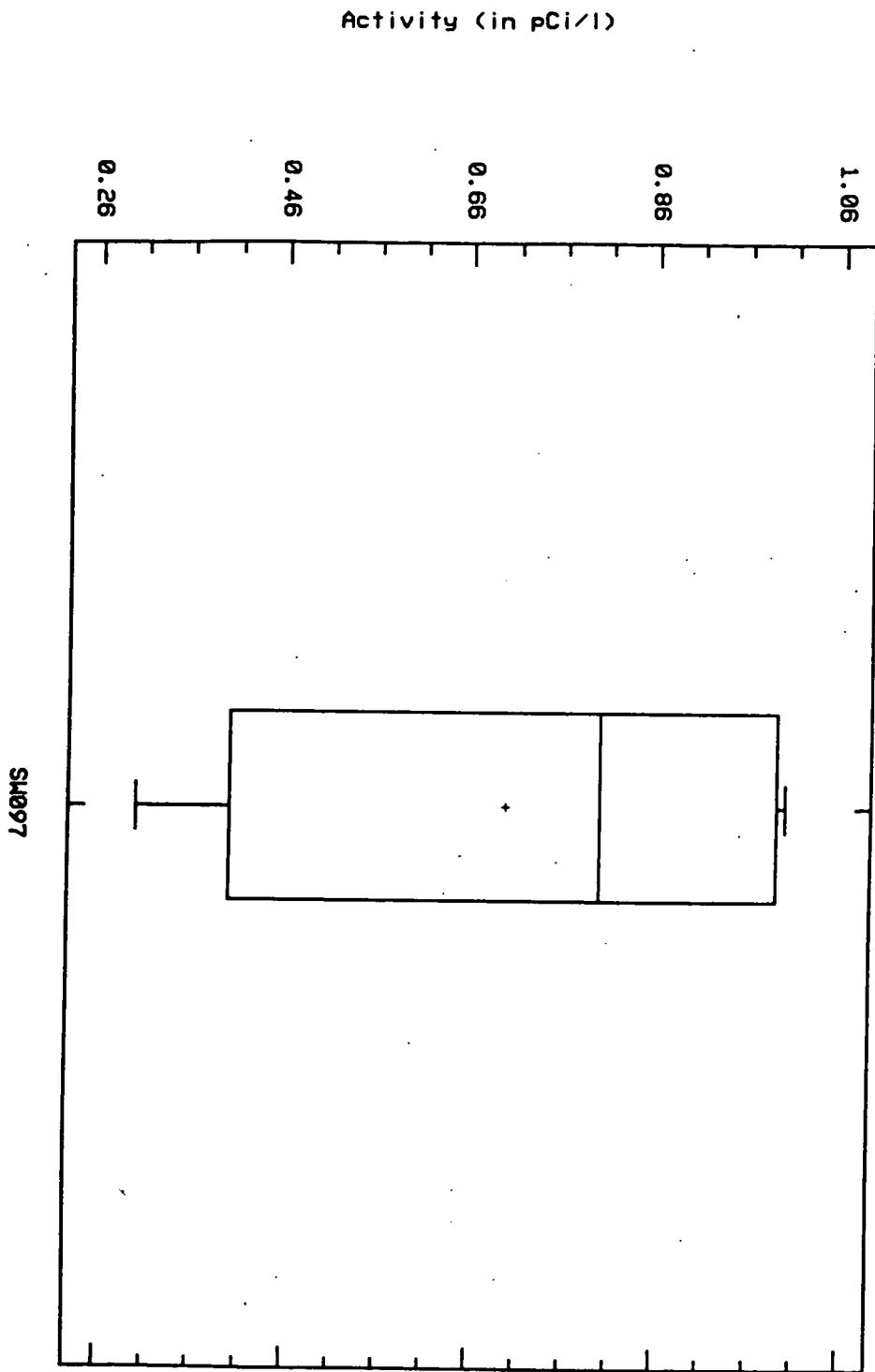
Strontium-89 (Dissolved): Seep Water
Background vs. DU7



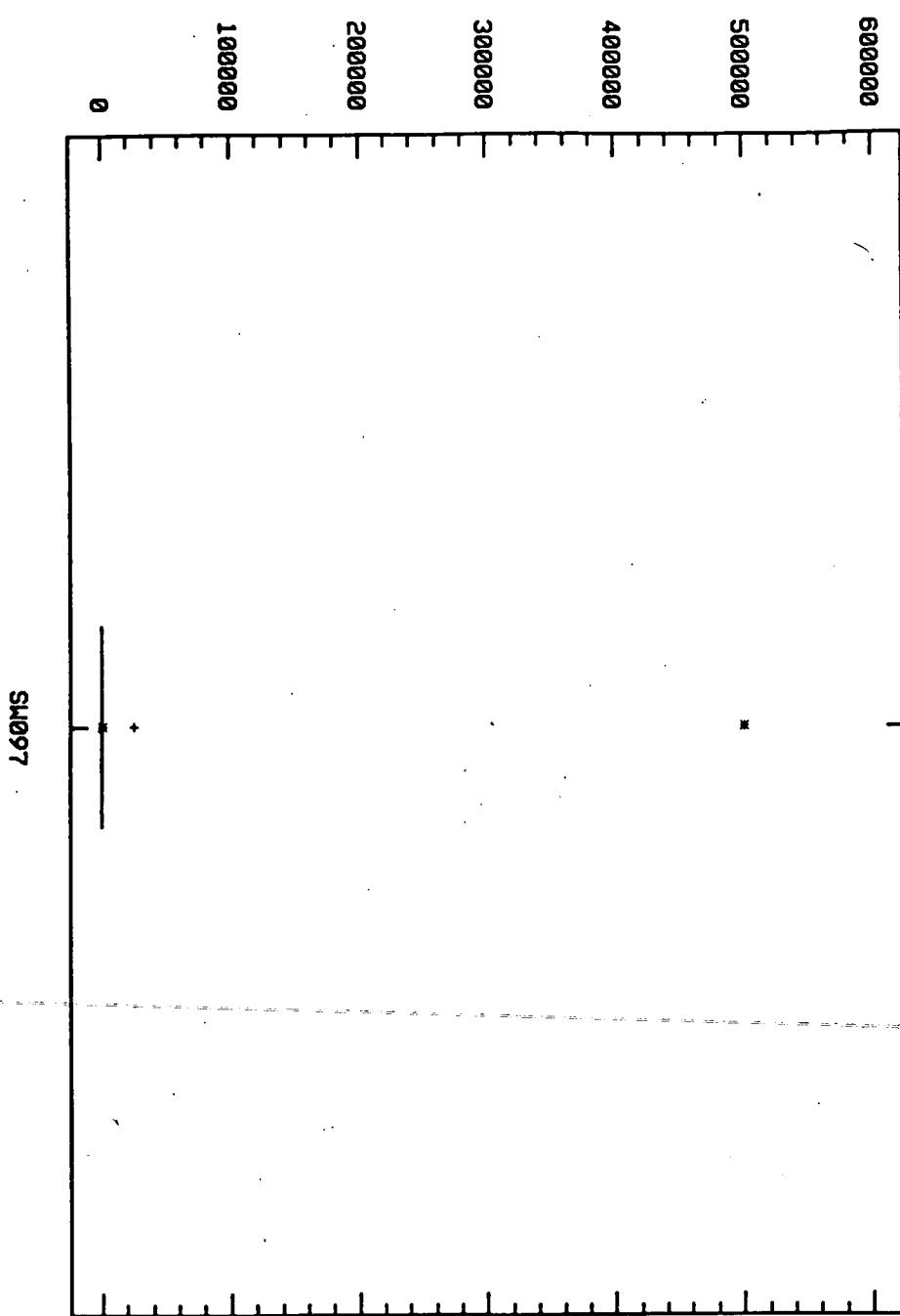
Strontium-89,90 (Dissolved): Seep Water
Background vs. OUT



Strontium-90 (Dissolved): Seep Water
Background vs. OUT



Concentration (in ug/l)

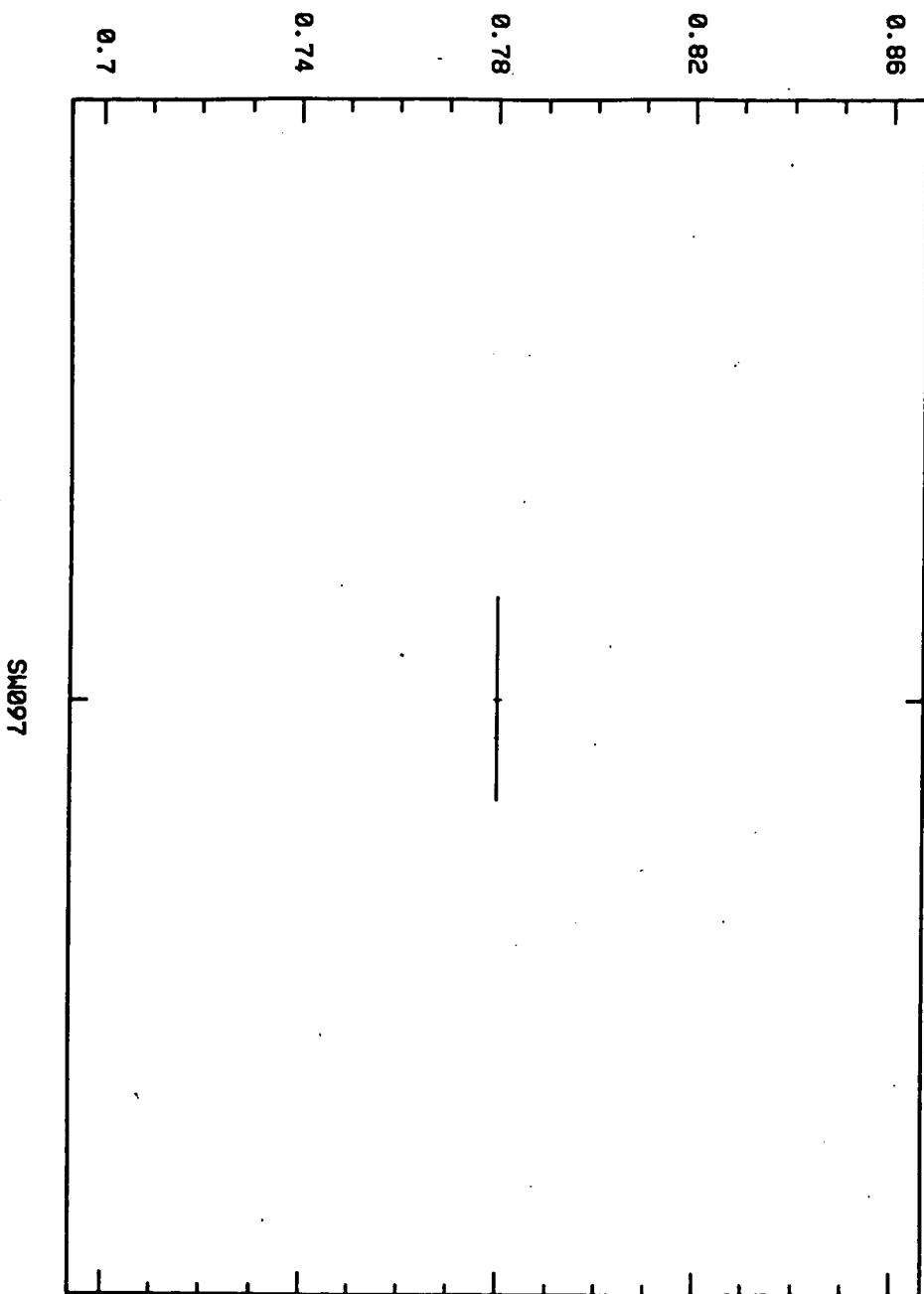


SM097

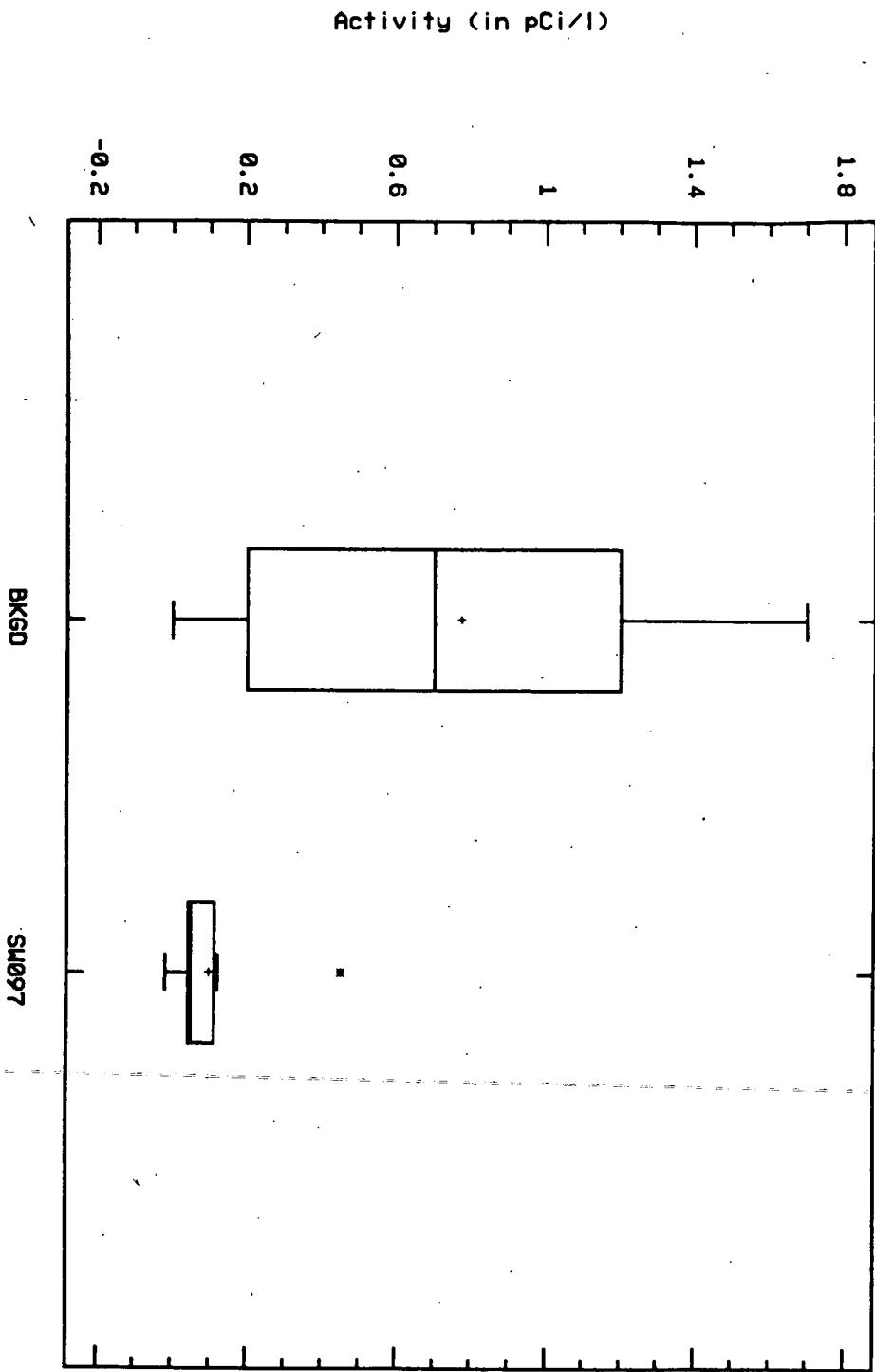
Total Radiocesium Dissolved: Seep Water

Background vs. 0U7

Activity (in pCi/l)

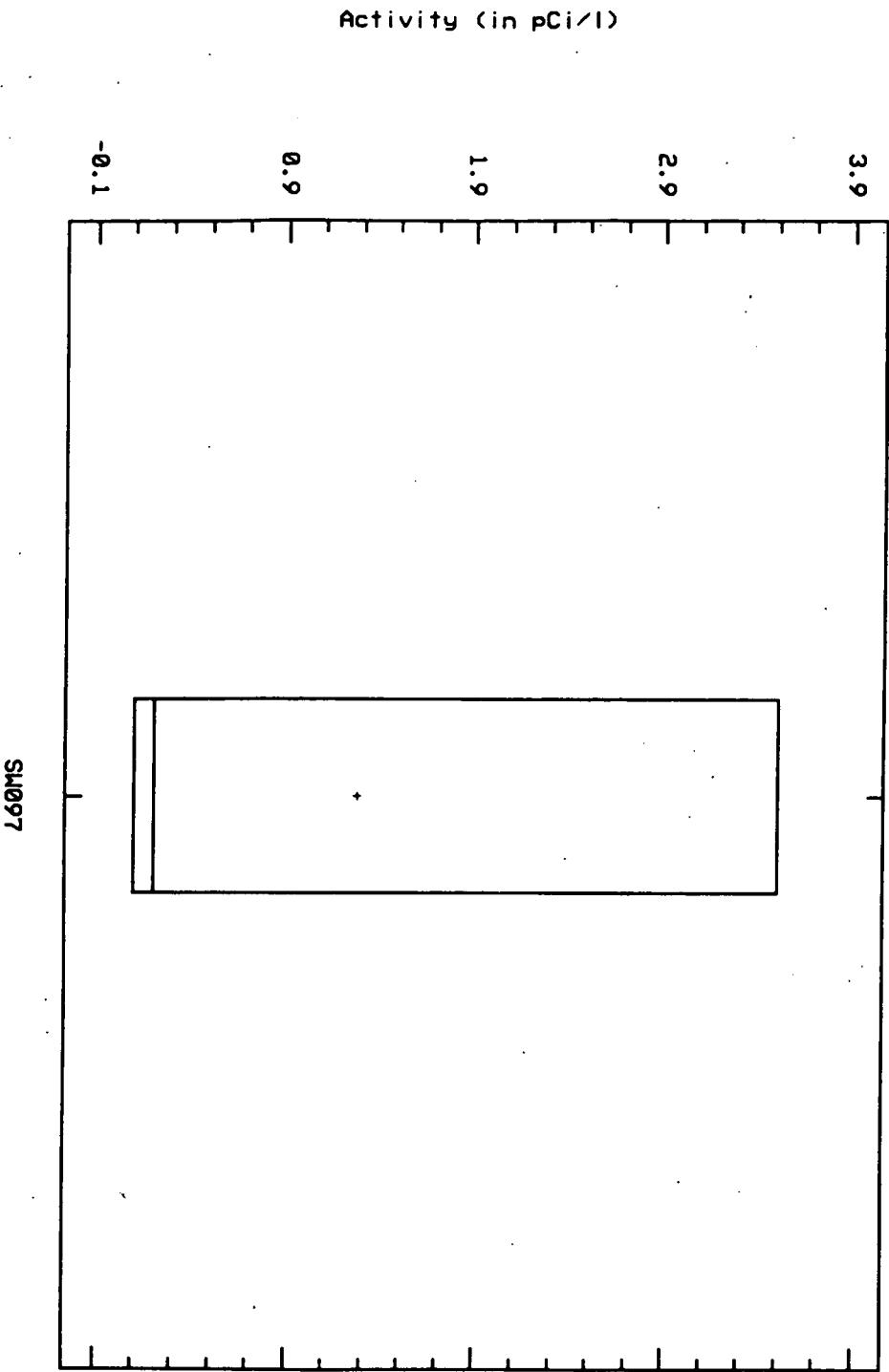


Uranium-233, -234 (Dissolved): Seep Water
Background vs. OUT



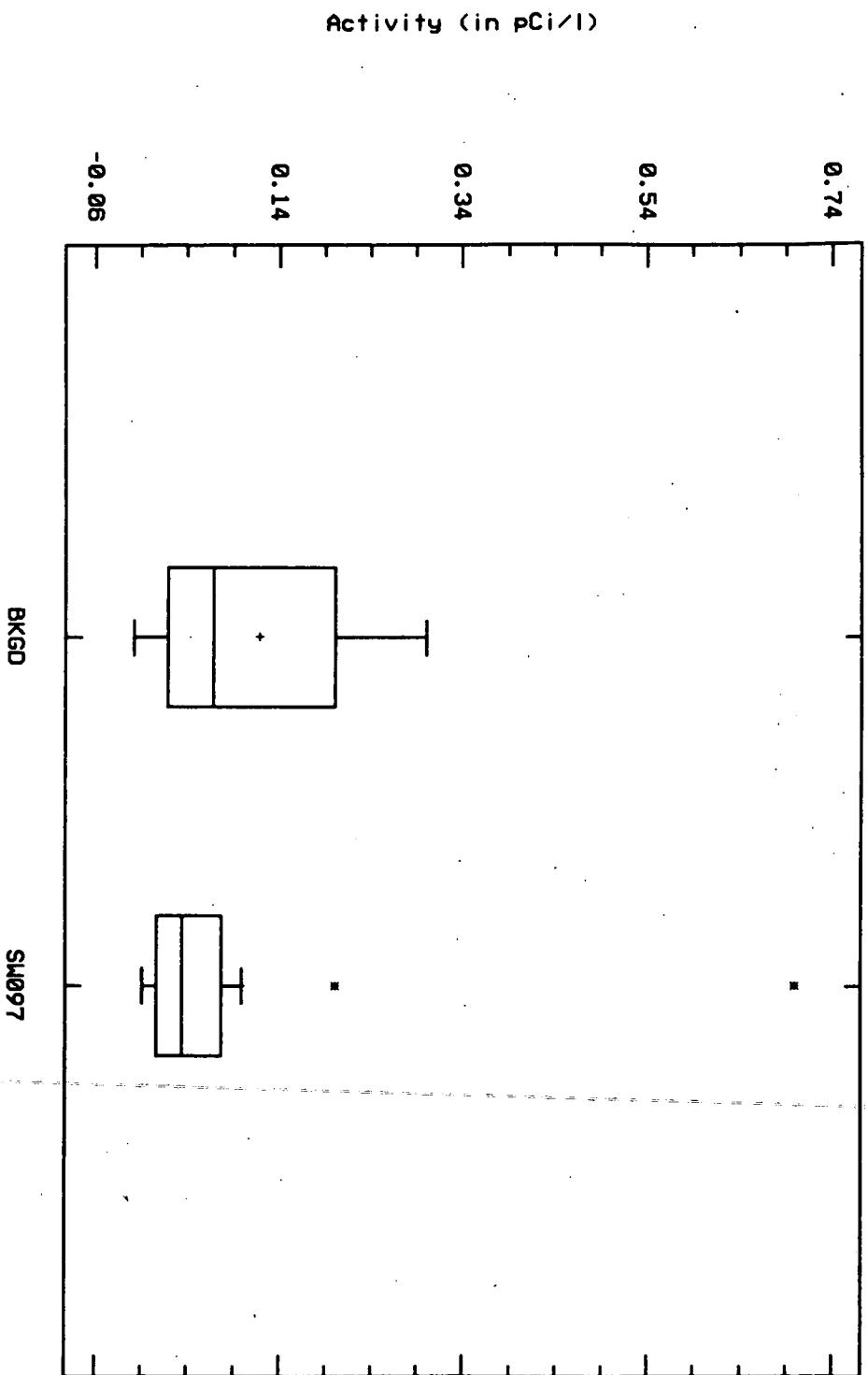
Uranium-234 (Dissolved): Seep Water

Background vs. OUT



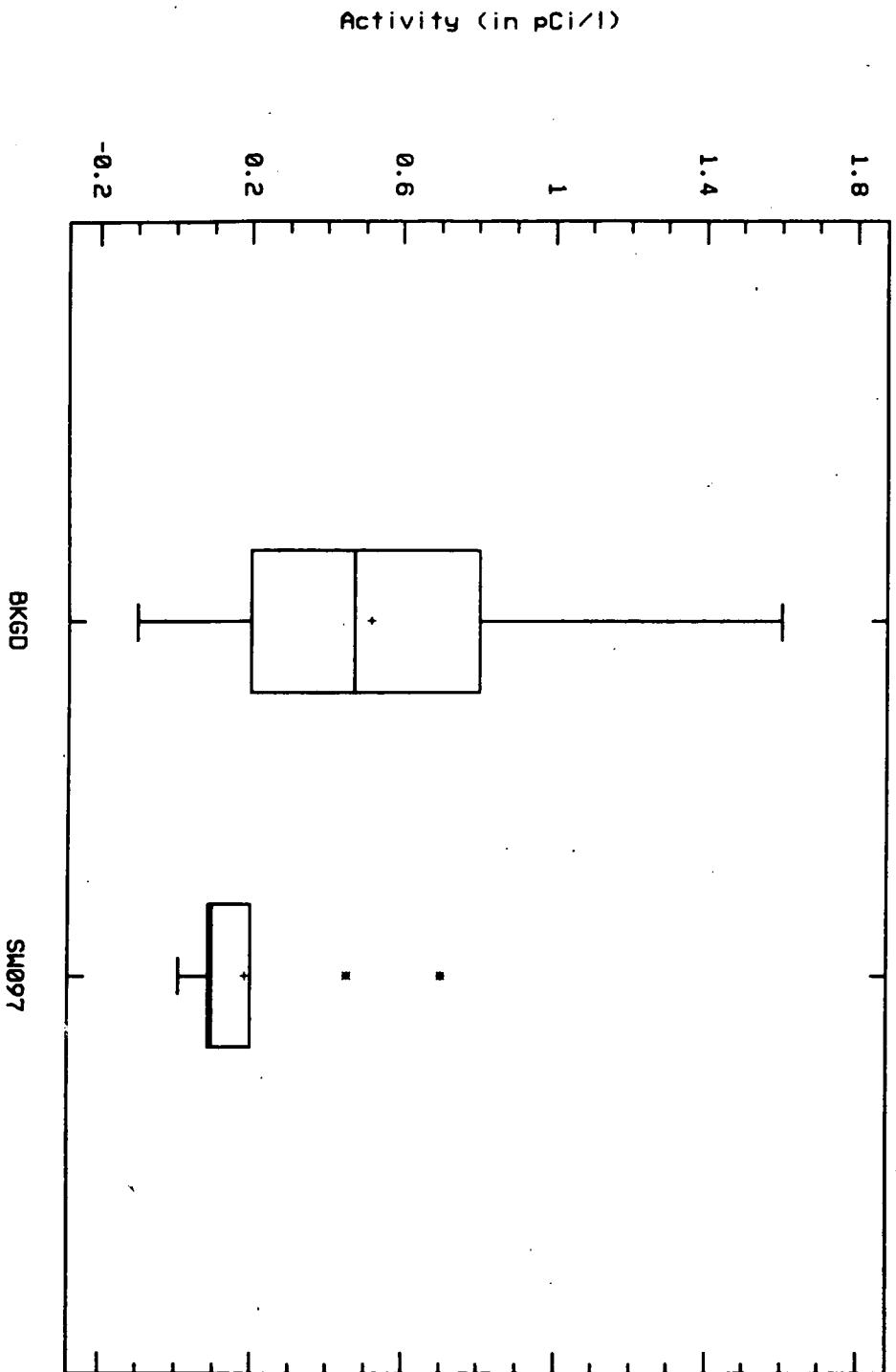
Uranium-235 (Dissolved): Seep Water

Background vs. OUT



Uranium-238 (Dissolved): Seep Water

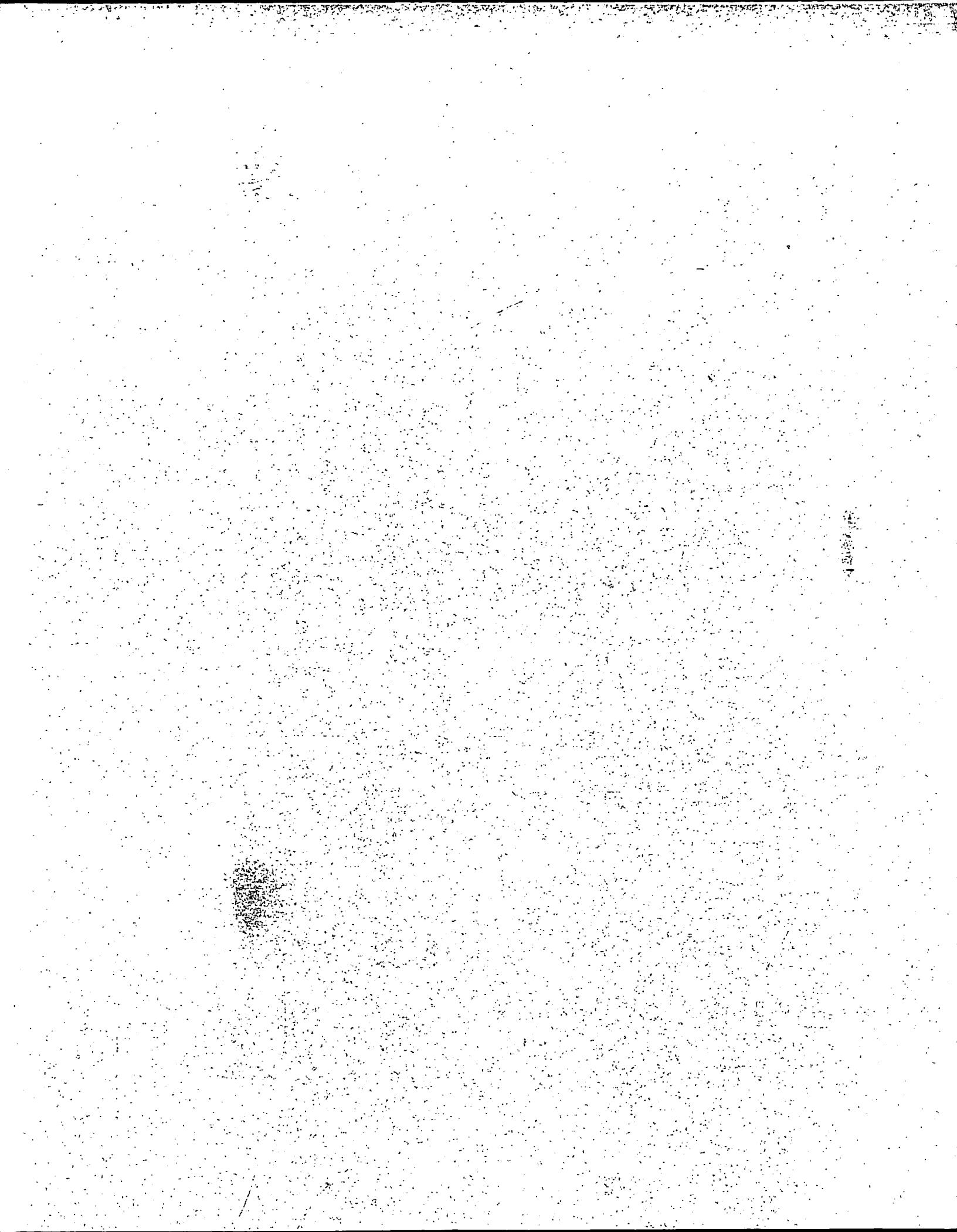
Background vs. OUT



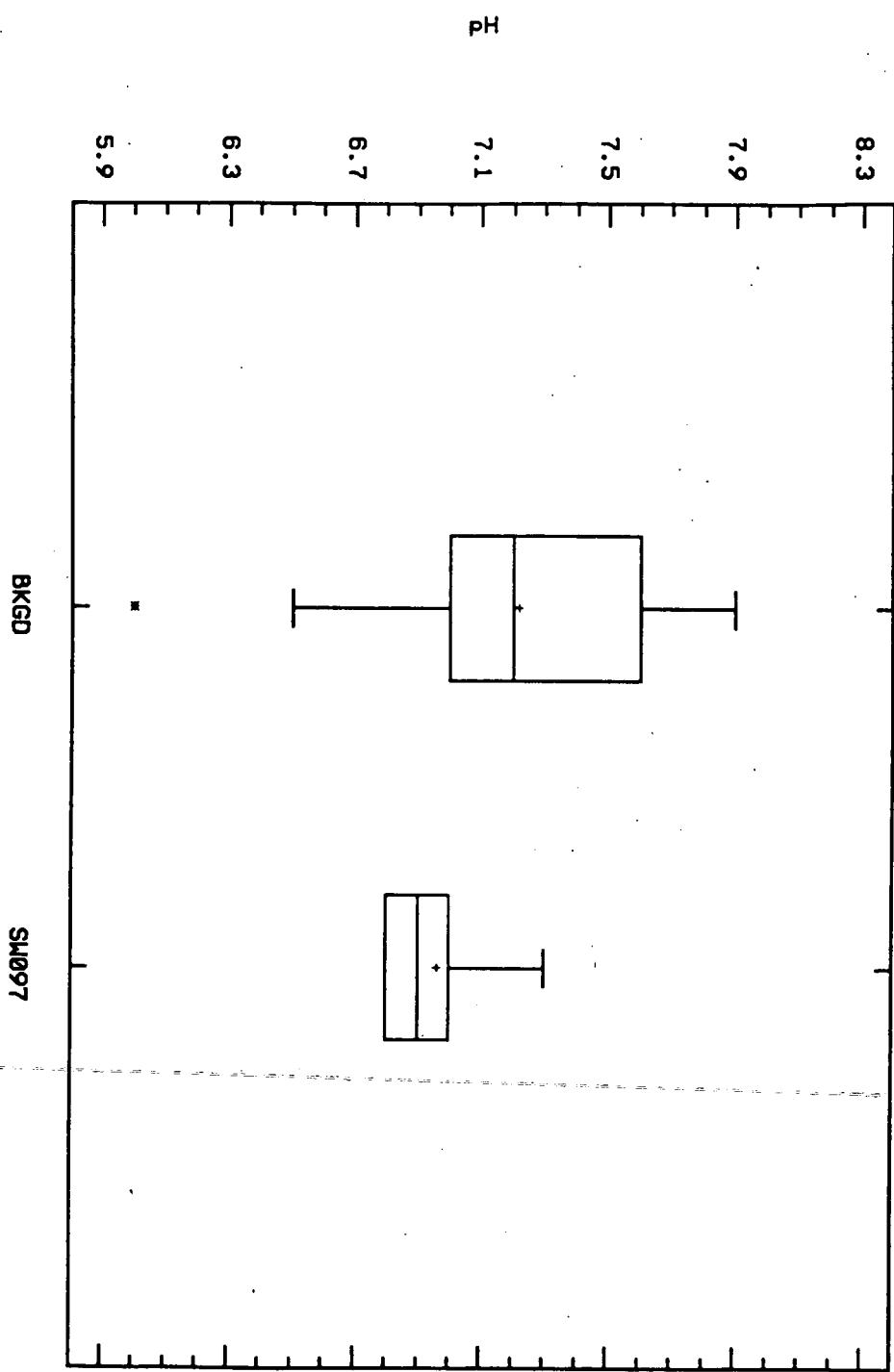
Seep Water

(Total)

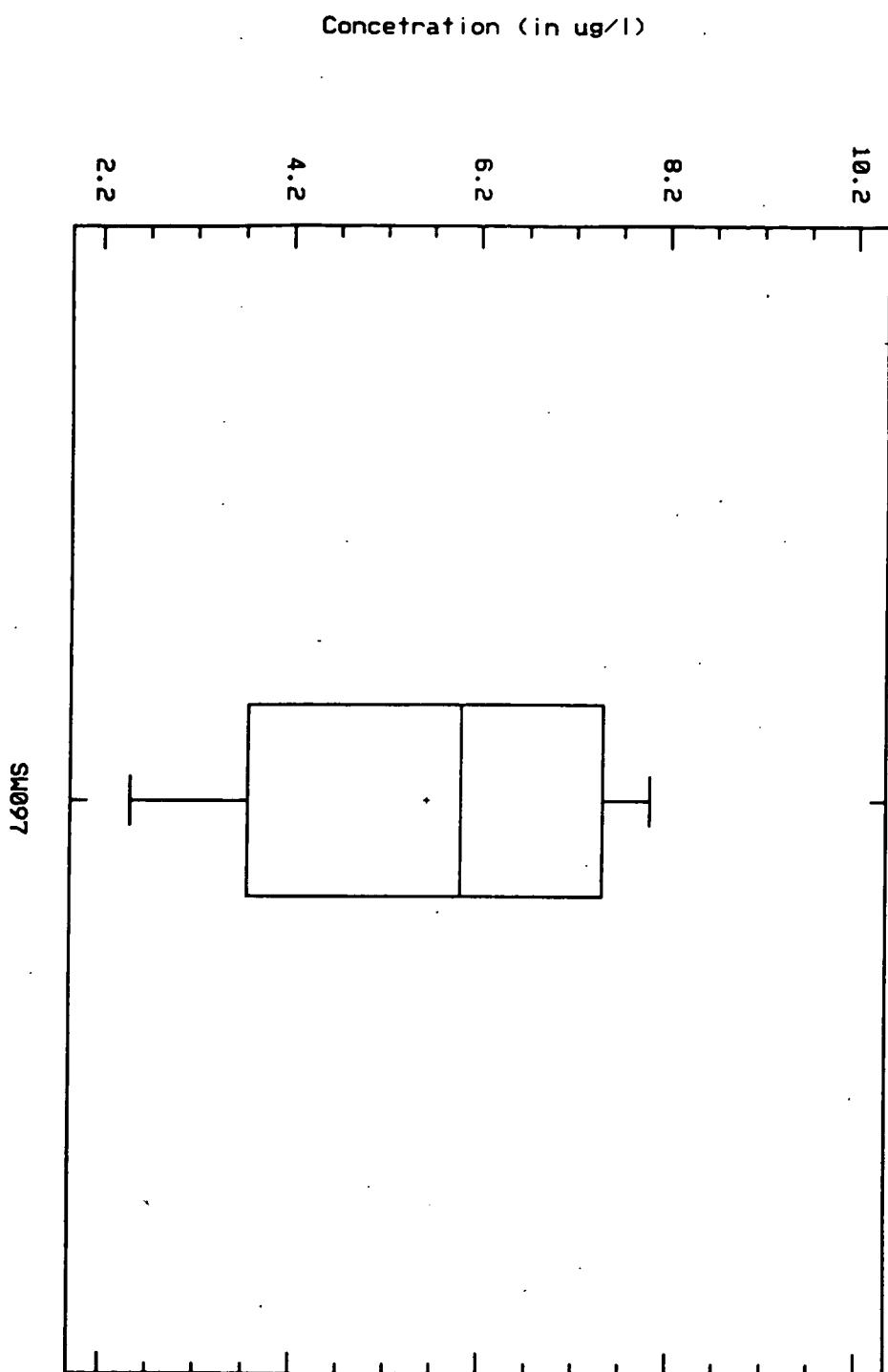
Background vs. OU 7



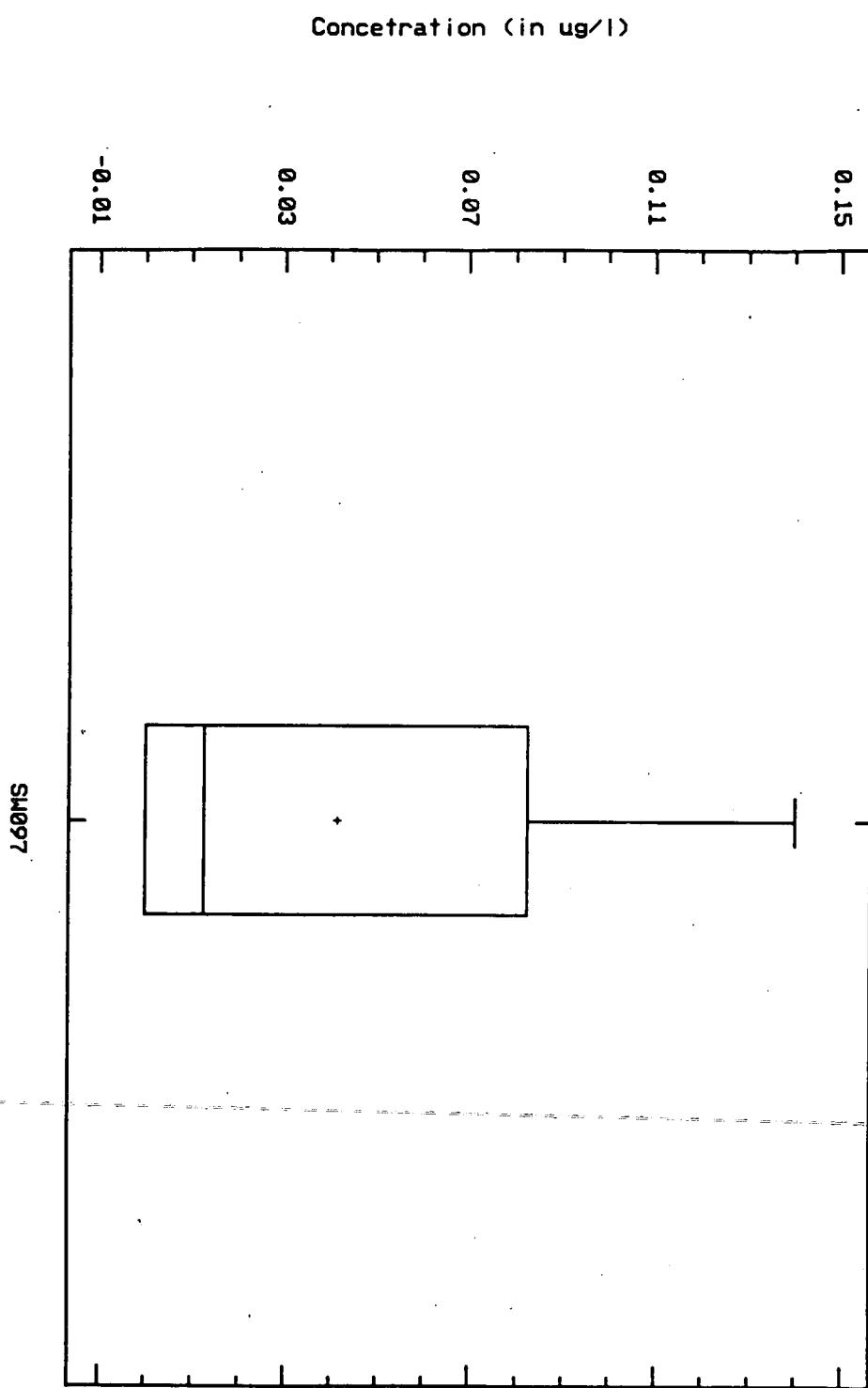
pH (Total): Seep Water
Background vs. OJ7



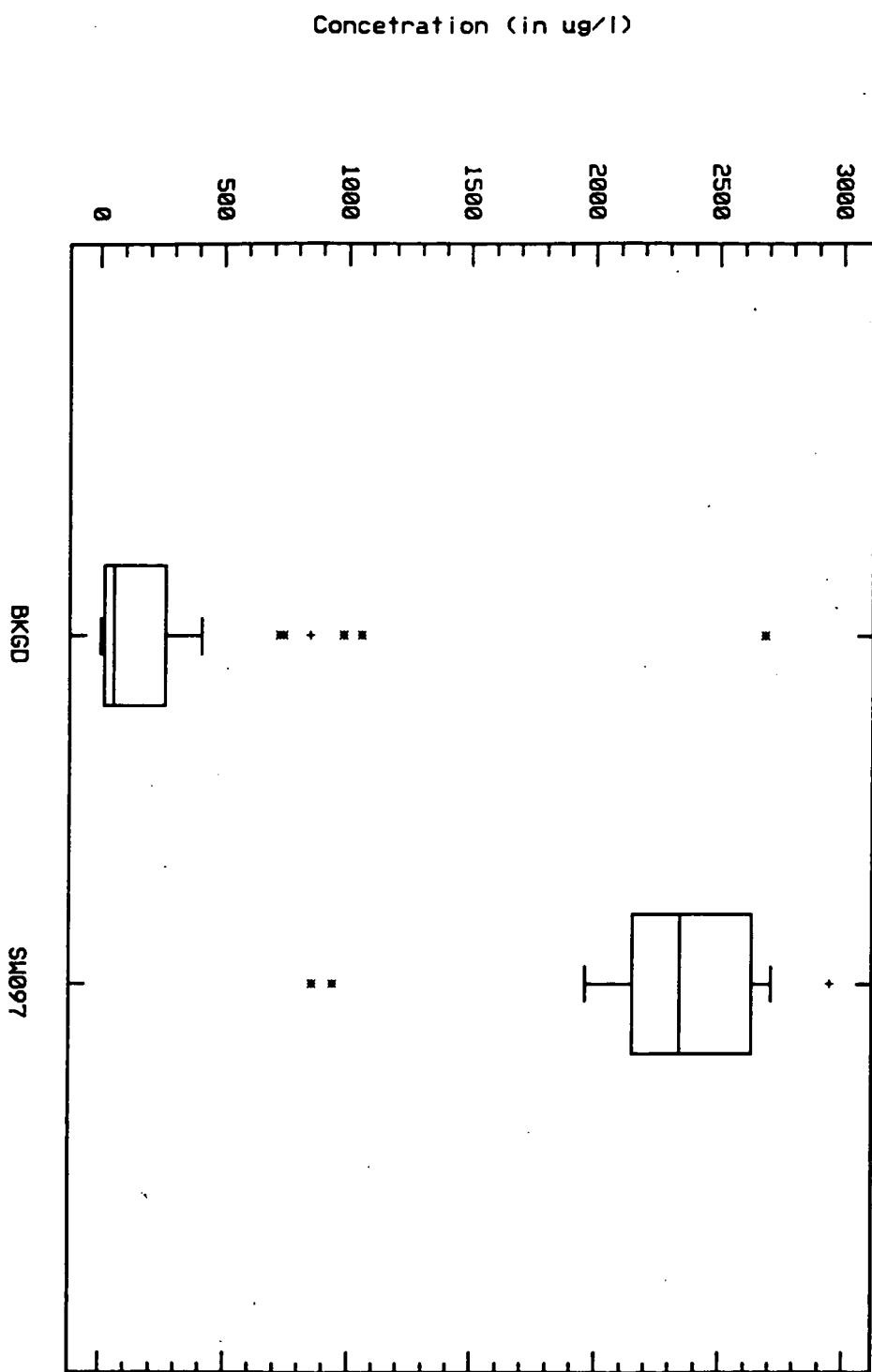
o-Xylene (Total): Seep Water
Background vs. 0U7



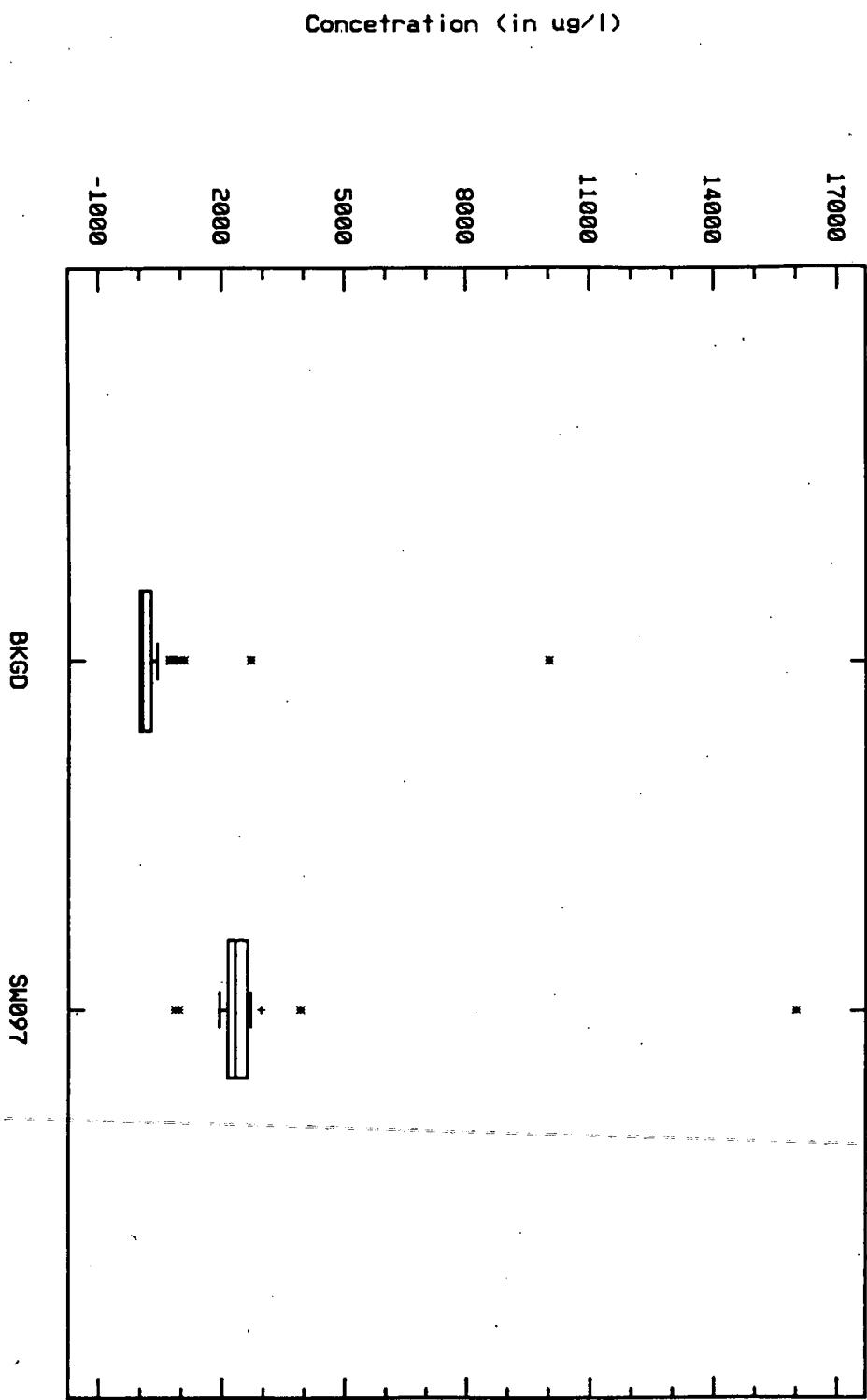
**α -BHC (Total): Seep Water
Background vs. OUT**



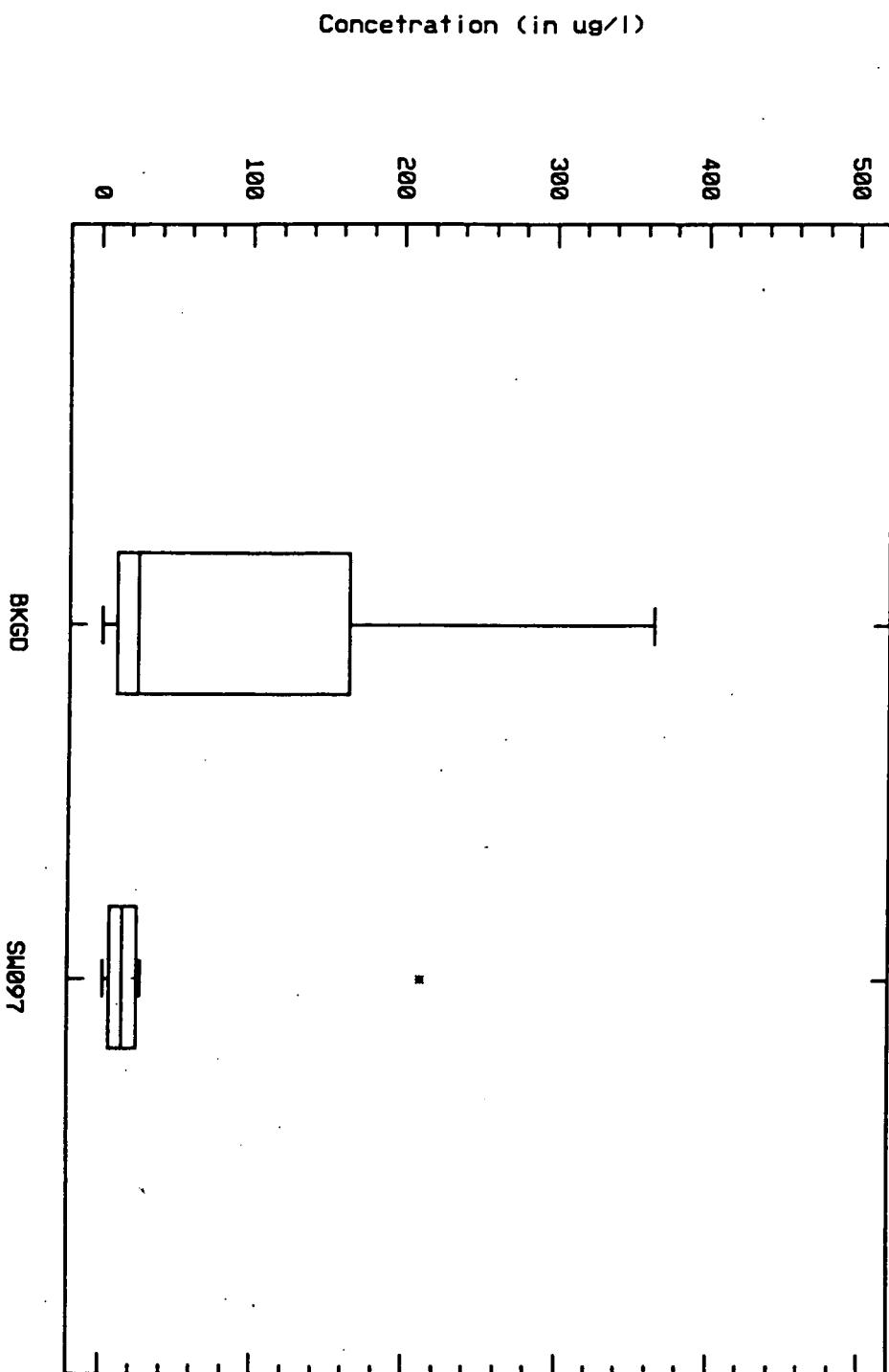
Zinc (Total): Seep Water
Background vs. 0U7



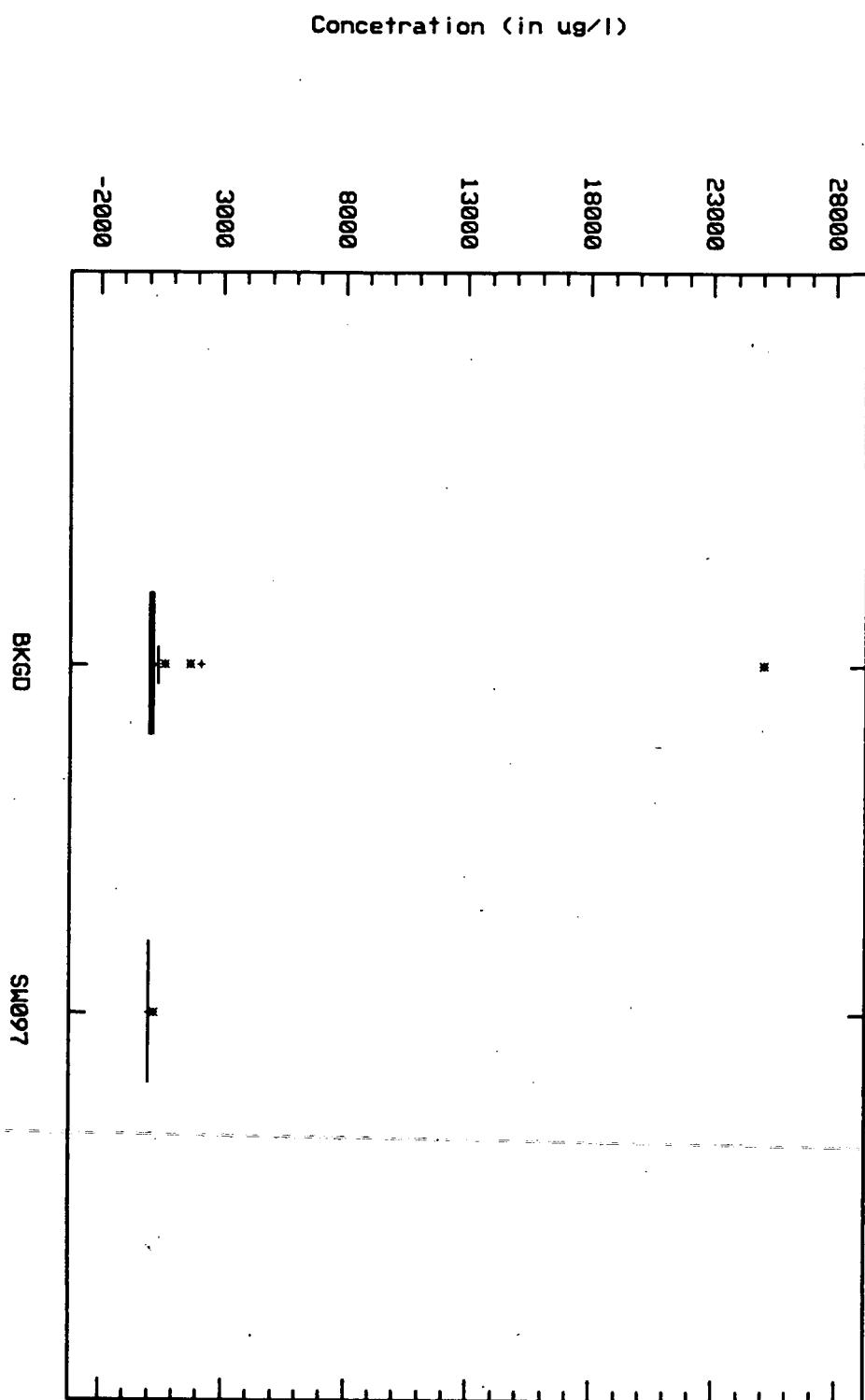
Zinc (Total): Seep Water
Background vs. 0U7



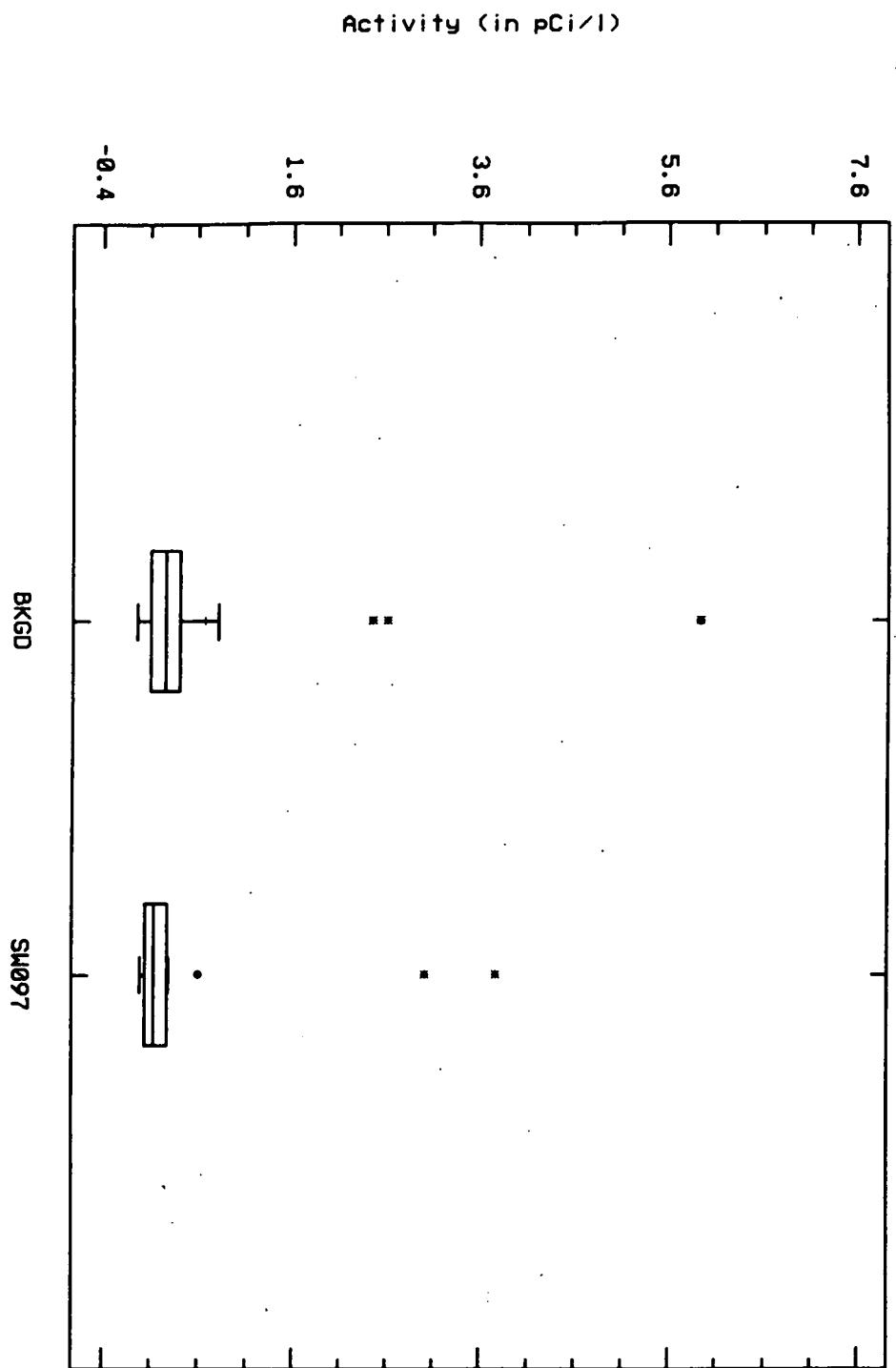
Vanadium (Total): Seep Water
Background vs. OU7



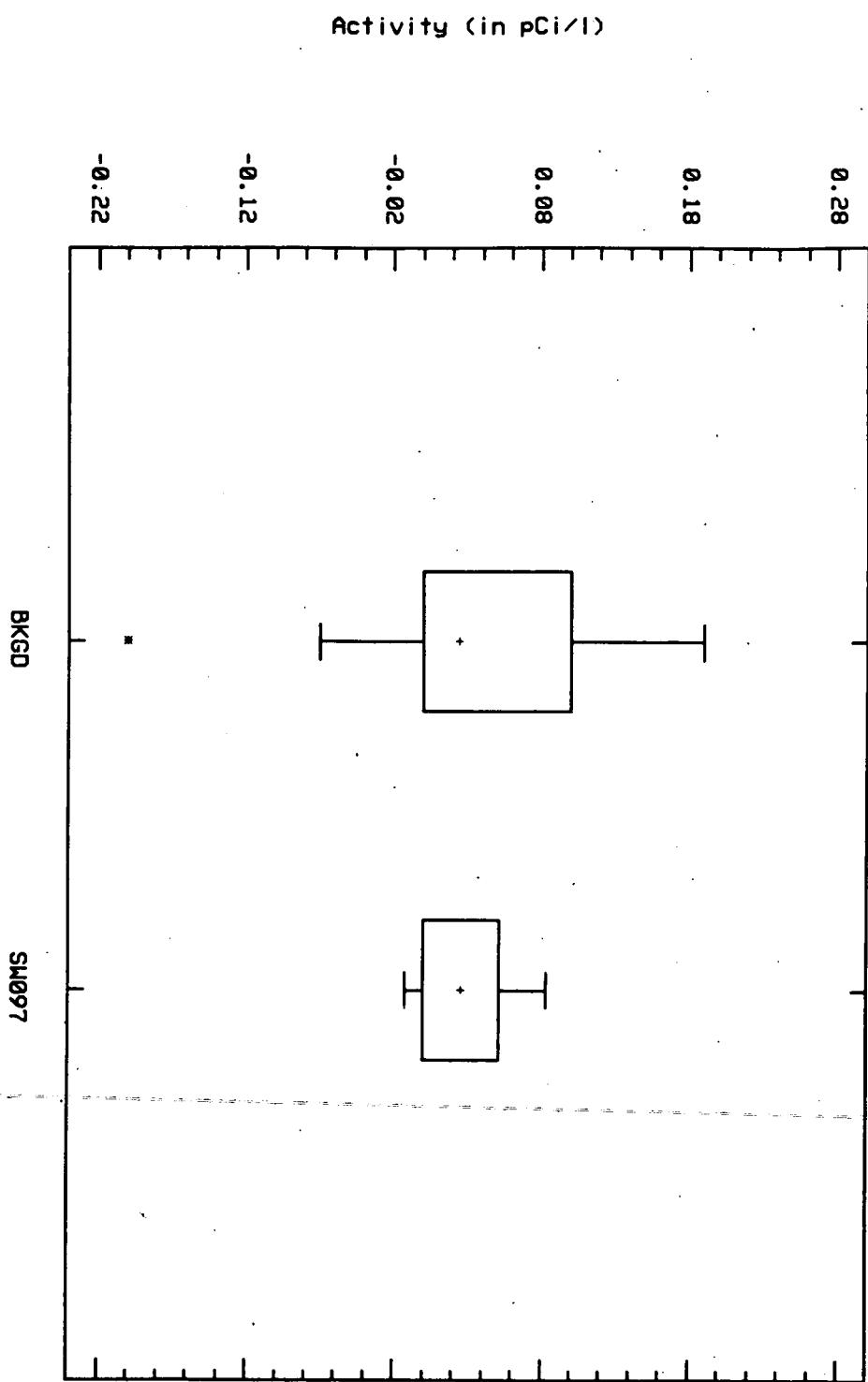
Vanadium (Total): Seep Water
Background vs. DU7



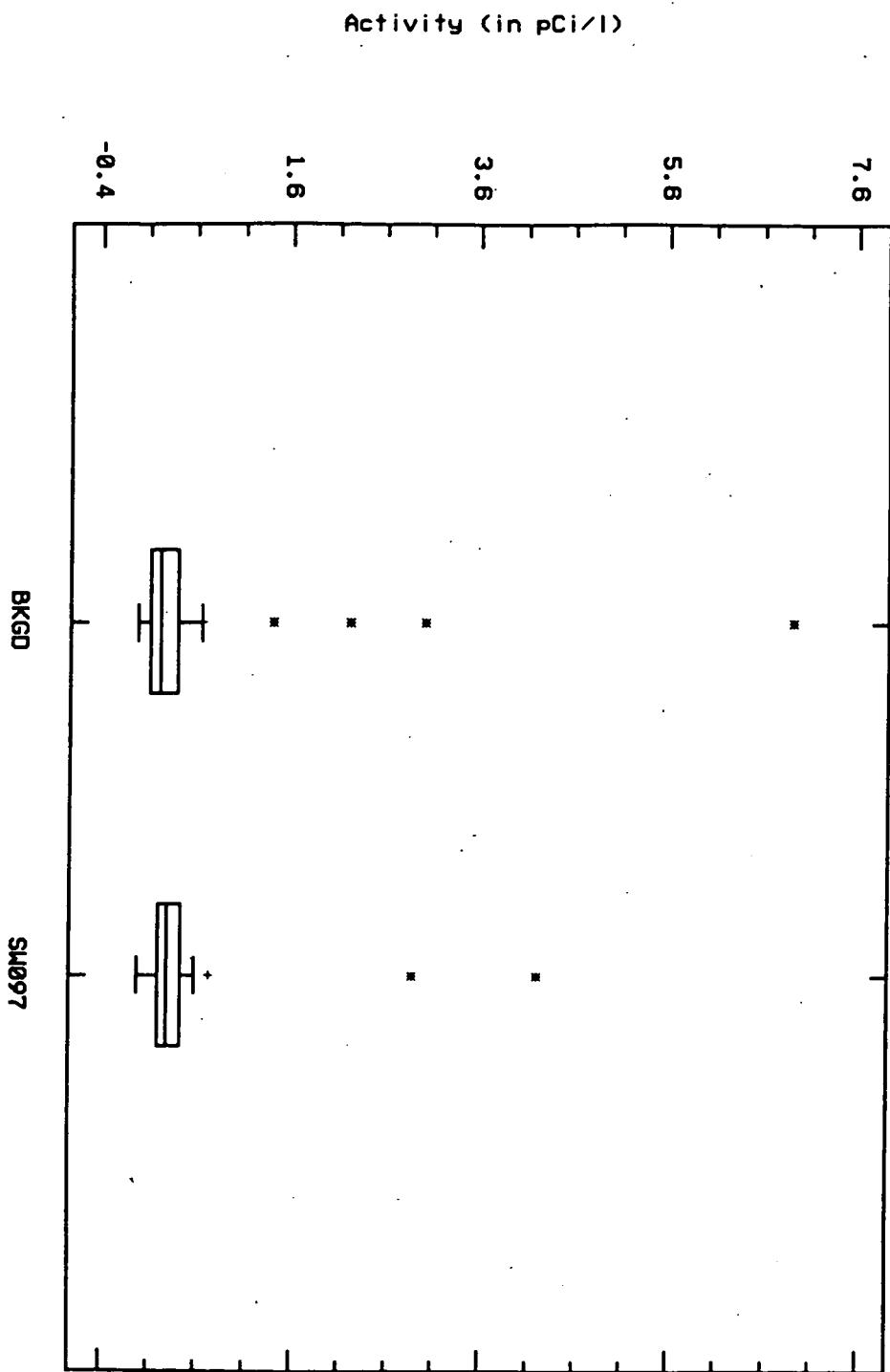
Uranium-238 (Total): Seep Water
Background vs. 0U7



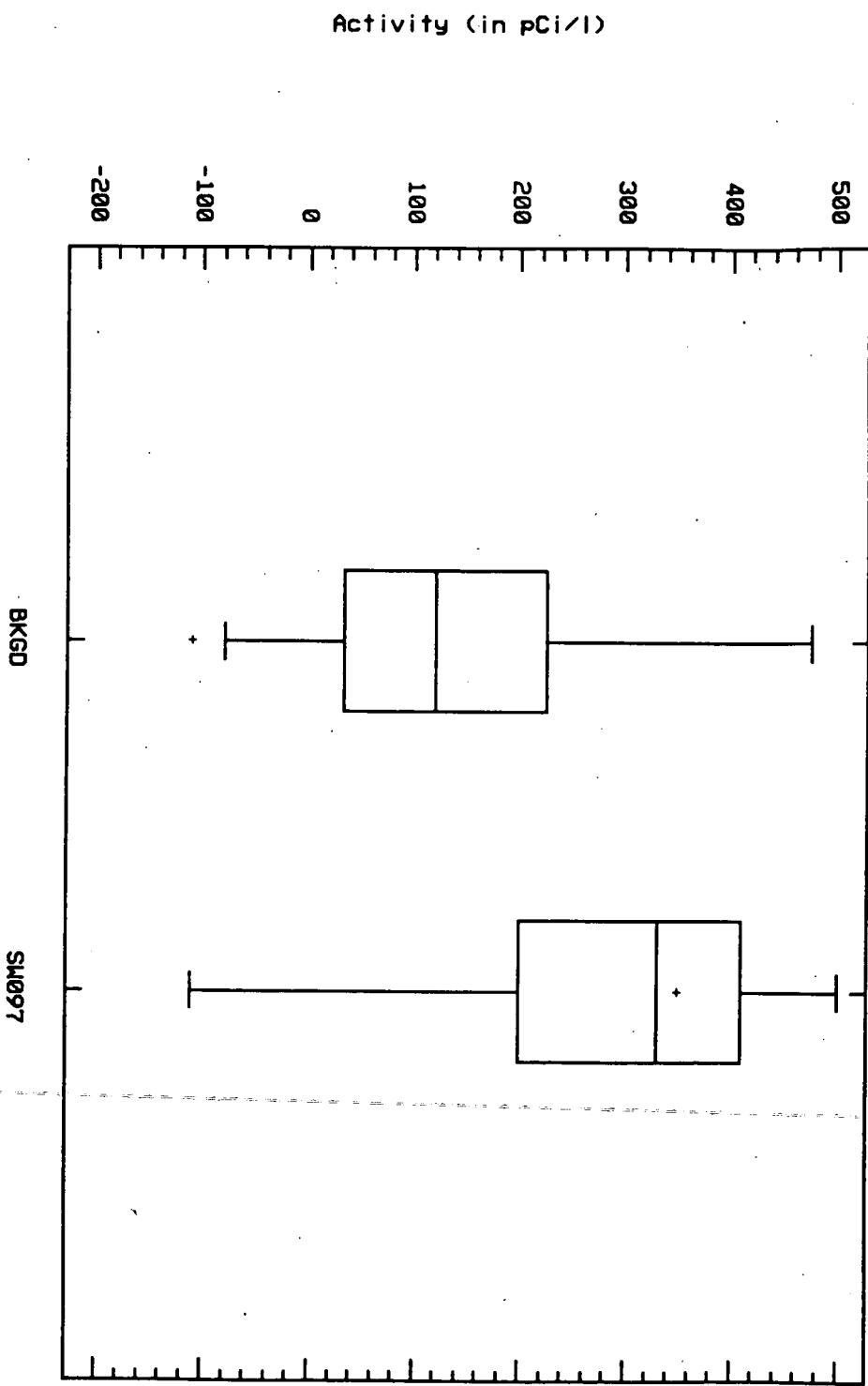
Uranium-235 (Total): Seep Water
Background vs. OUT



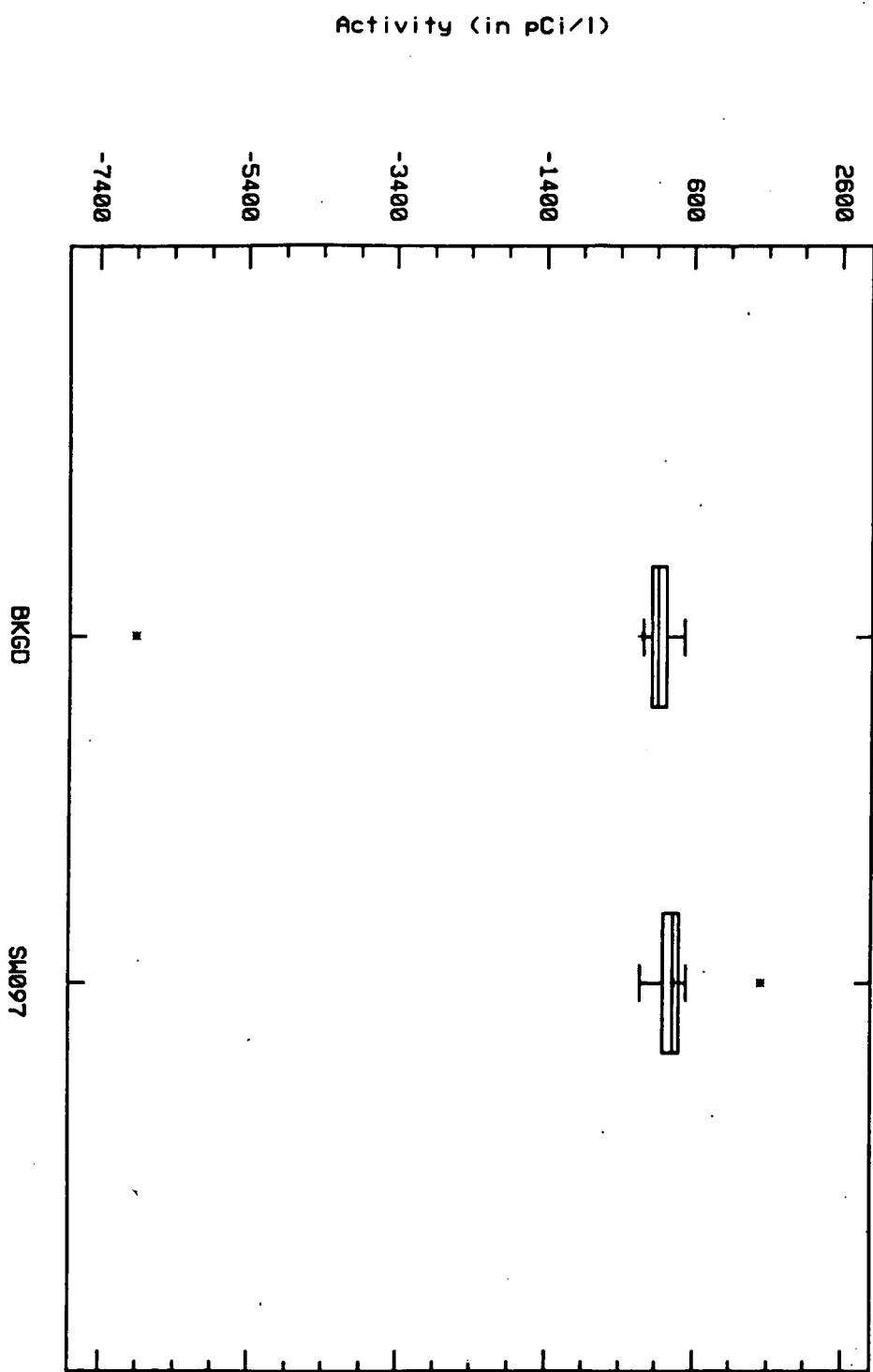
Uranium-233, -234 (Total): Seep Water
Background vs. OUT



Tritium (Total): Seep Water
Background vs. OUT



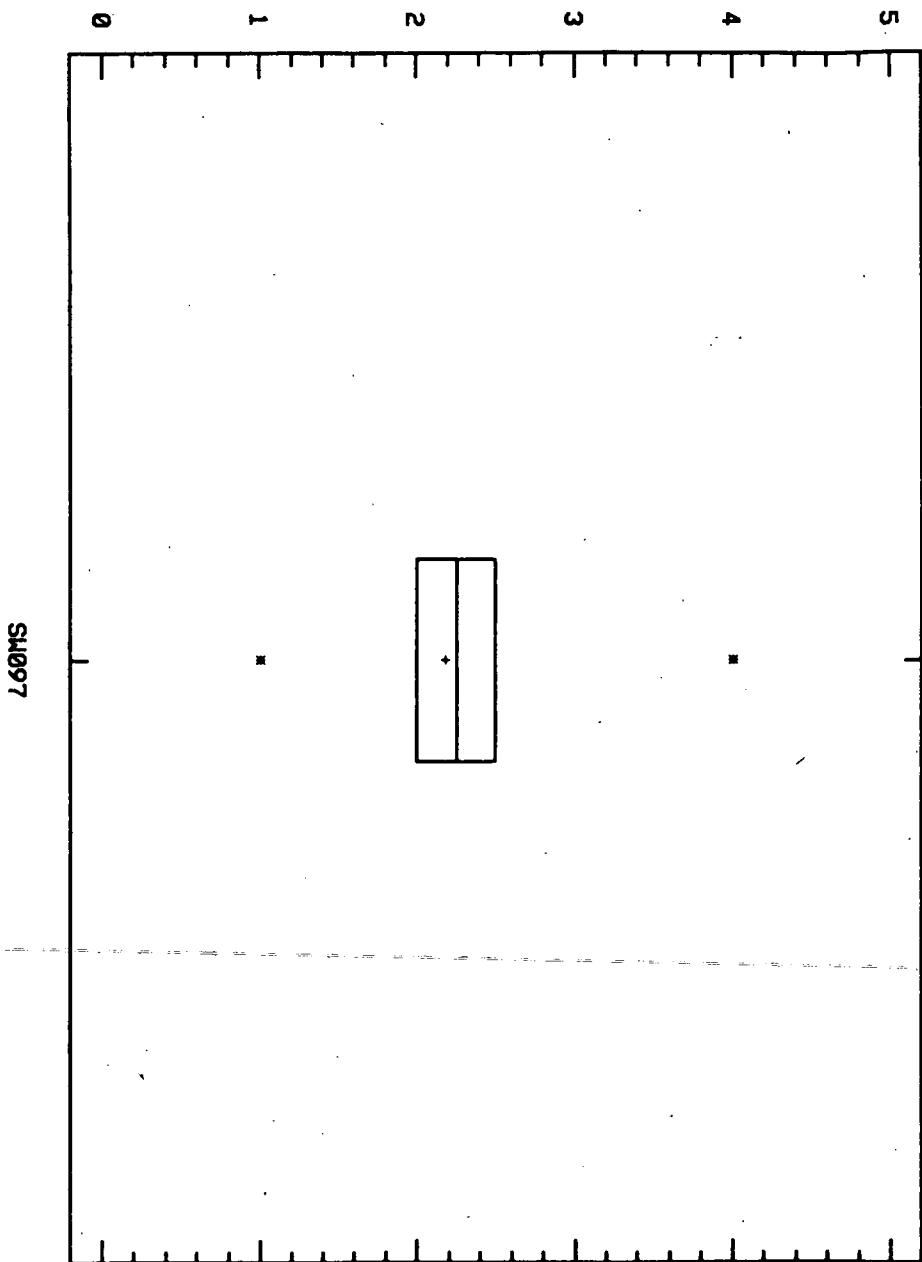
Tritium (Total): Seep Water
Background vs. OUT



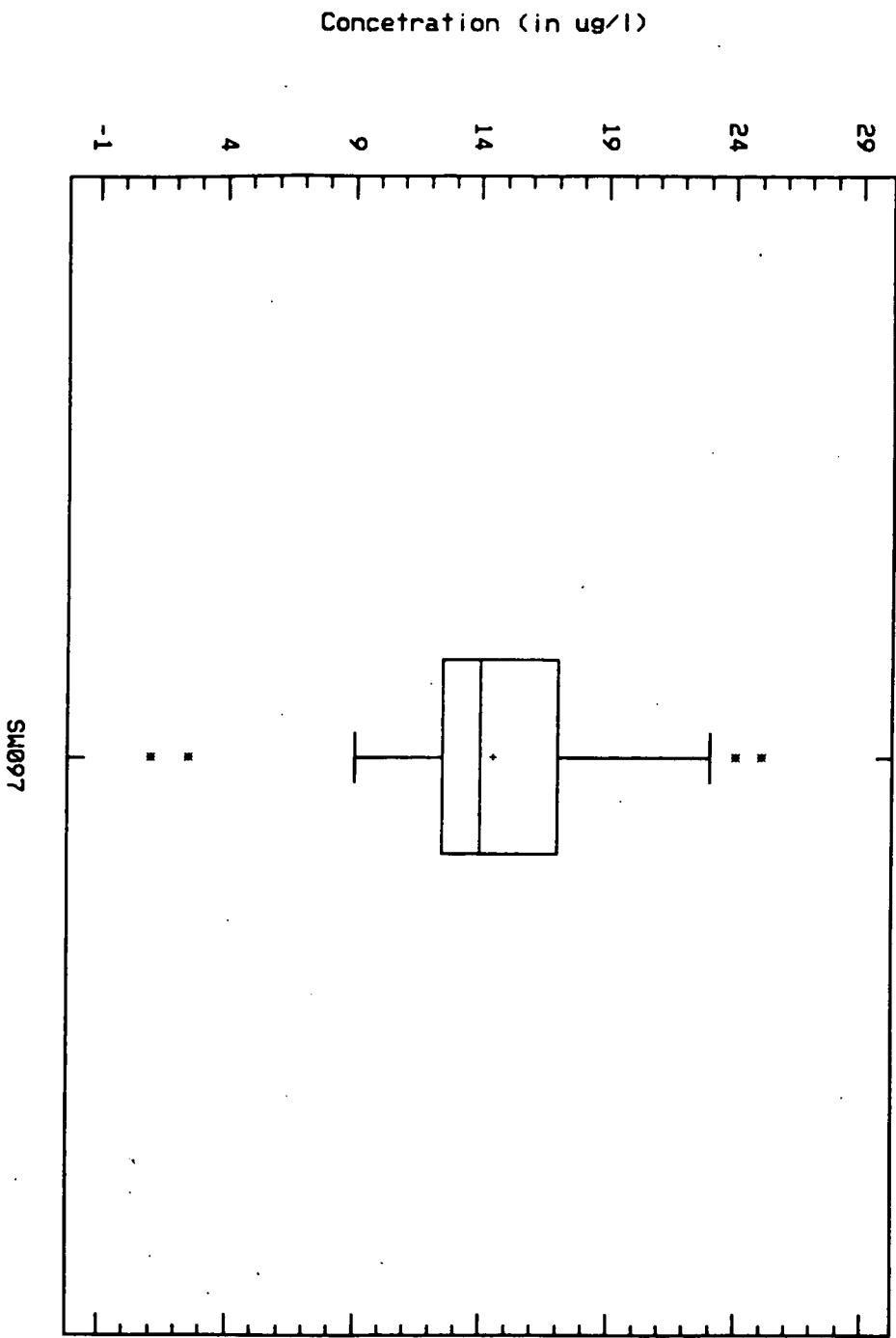
Trichloroethene (Total): Seep Water

Background vs. OUT

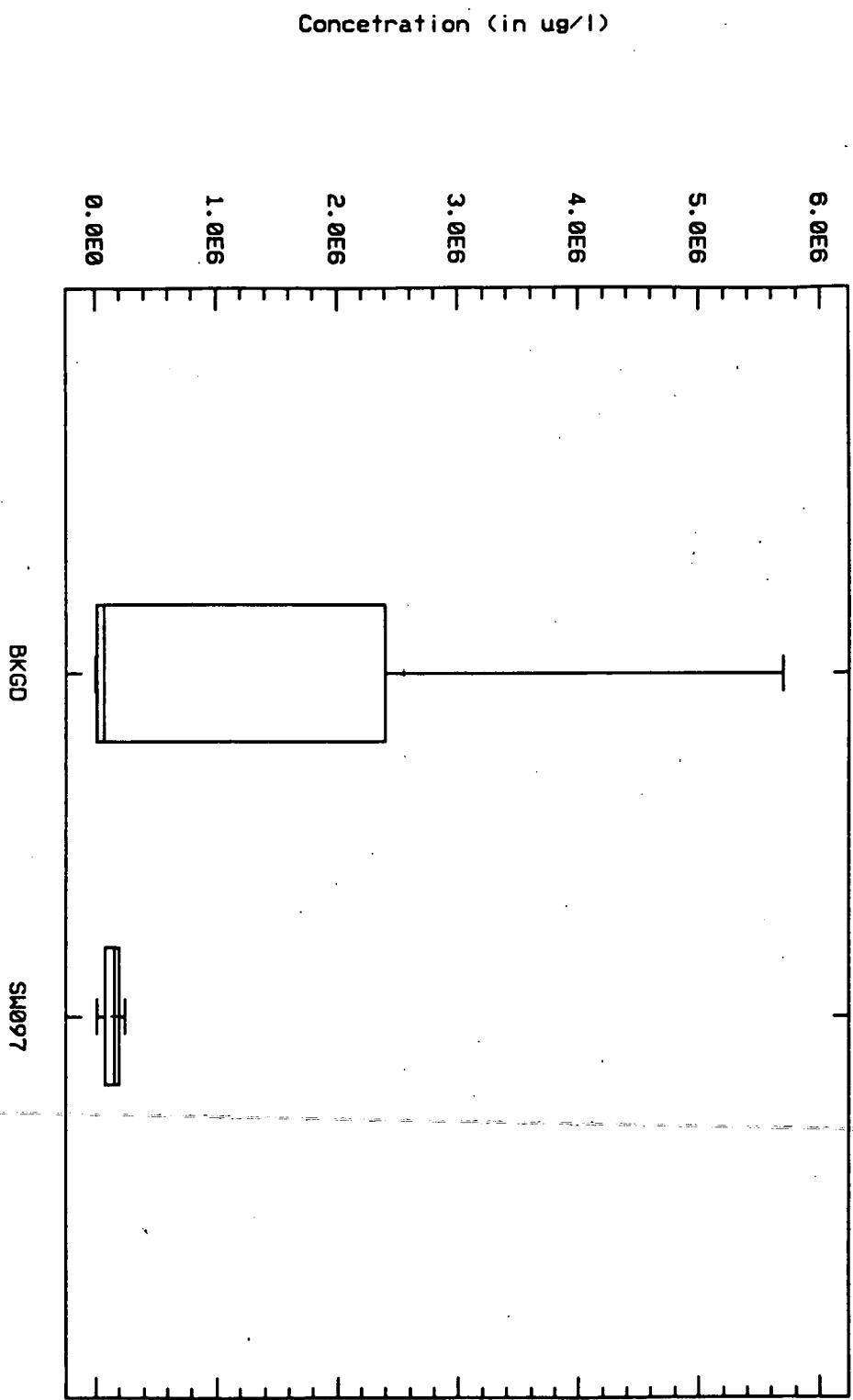
Concentration (in ug/l)



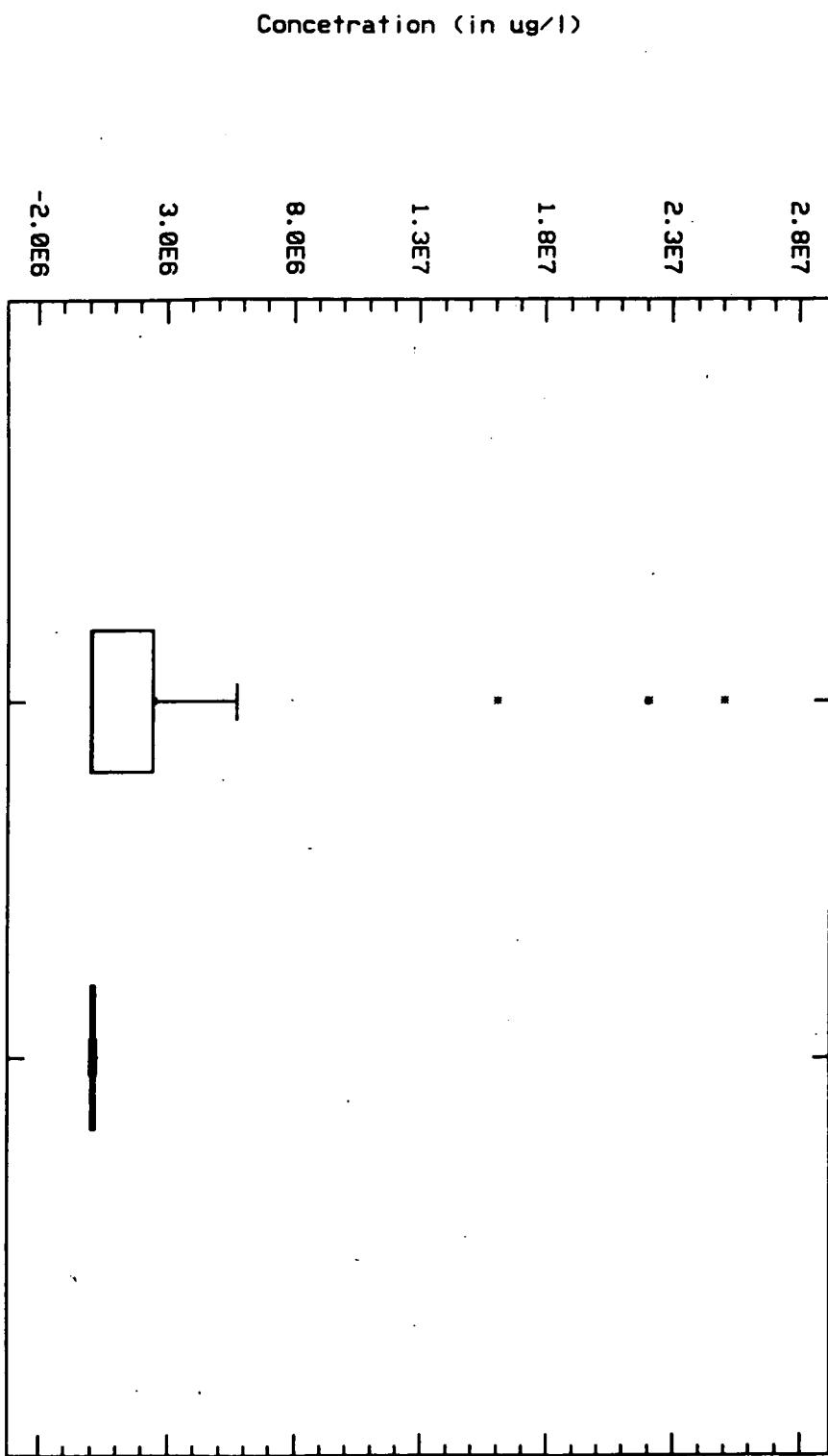
Total Xylenes (Total): Seep Water
Background vs. OUT



Total Suspended Solids(Total):Seep Water
Background vs. OUT



Total Suspended Solids(Total): Seep Water
Background vs. OUT

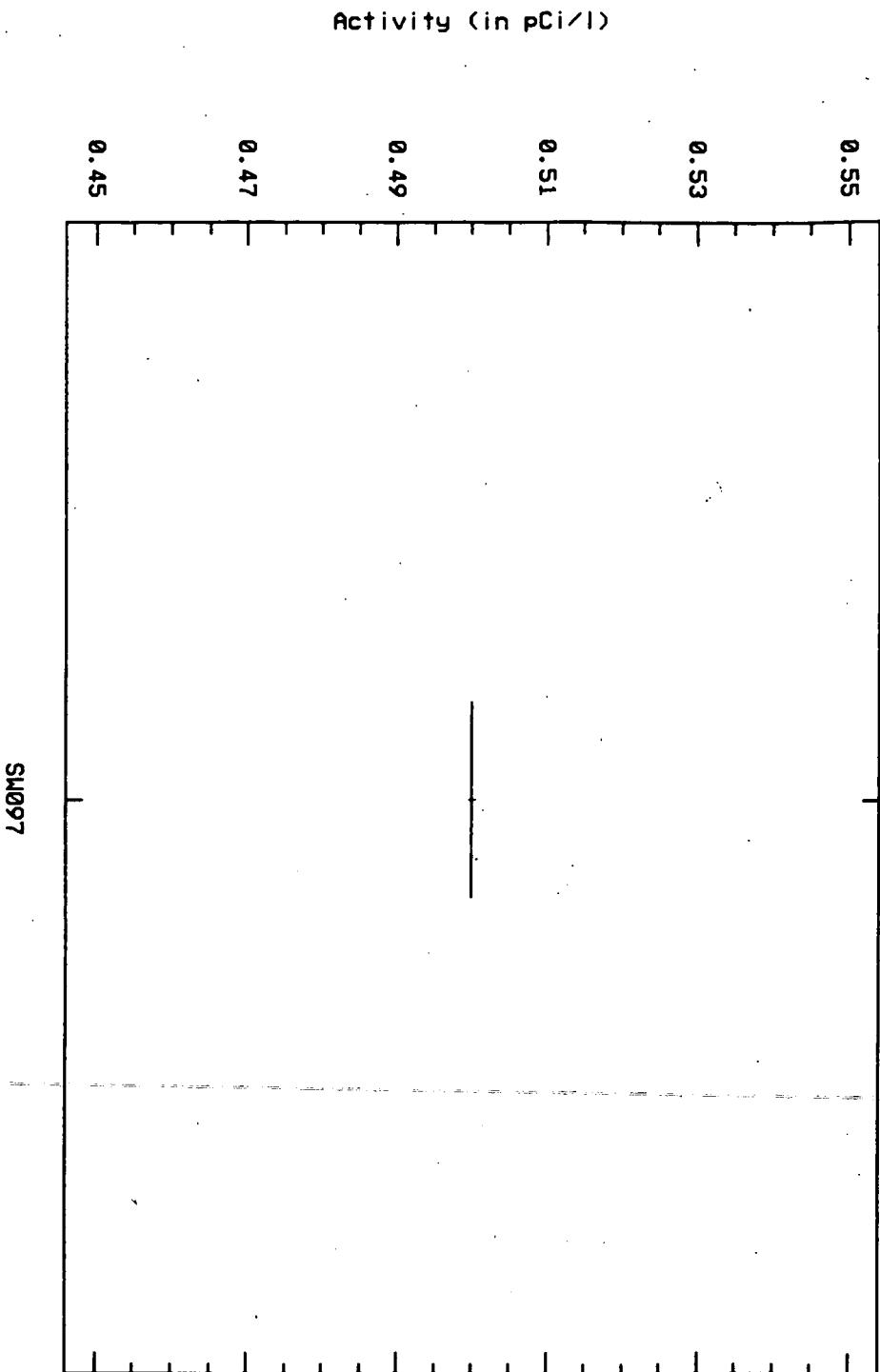


BKGD

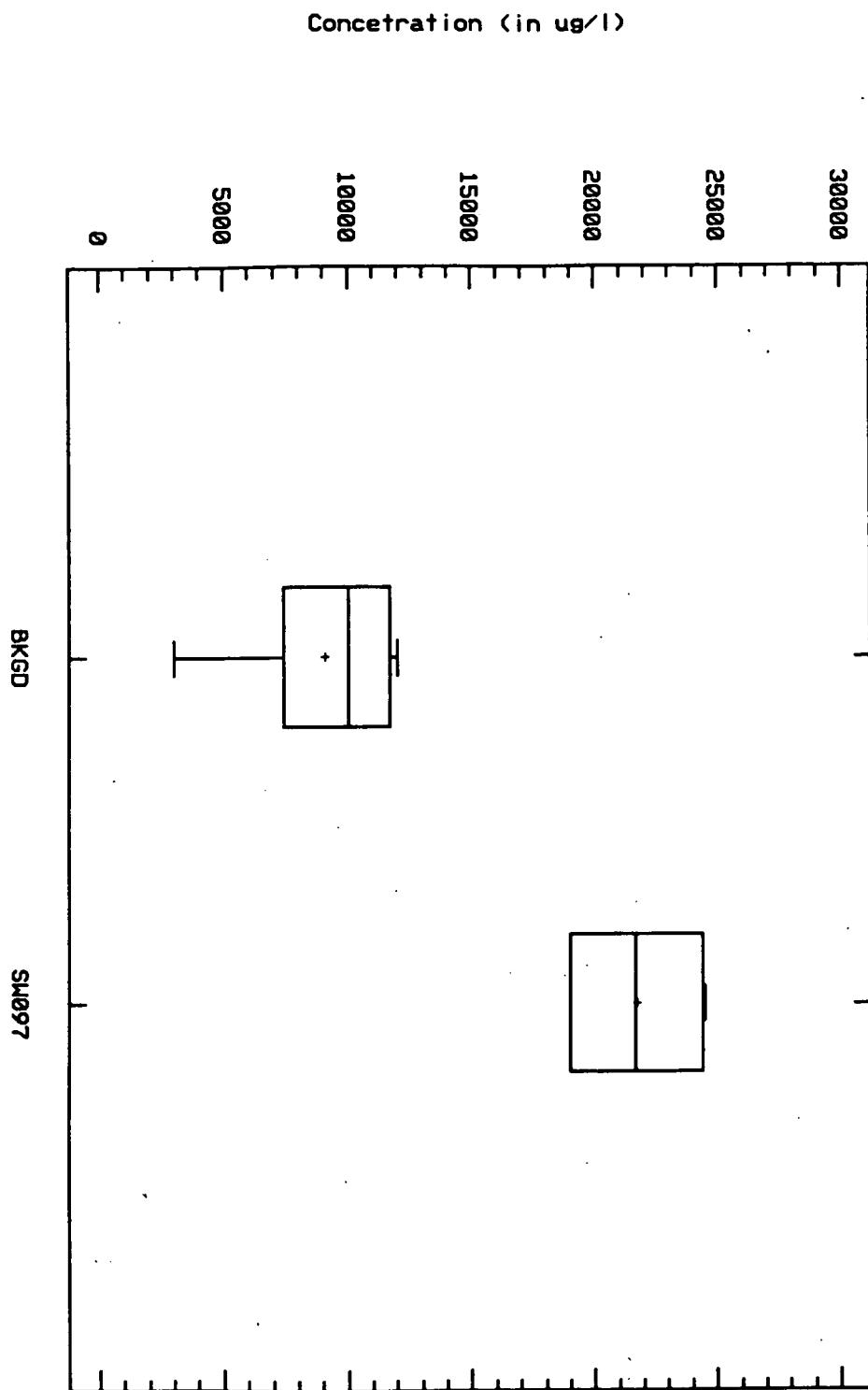
SW097

Total Radiocesium (Total): Seep Water

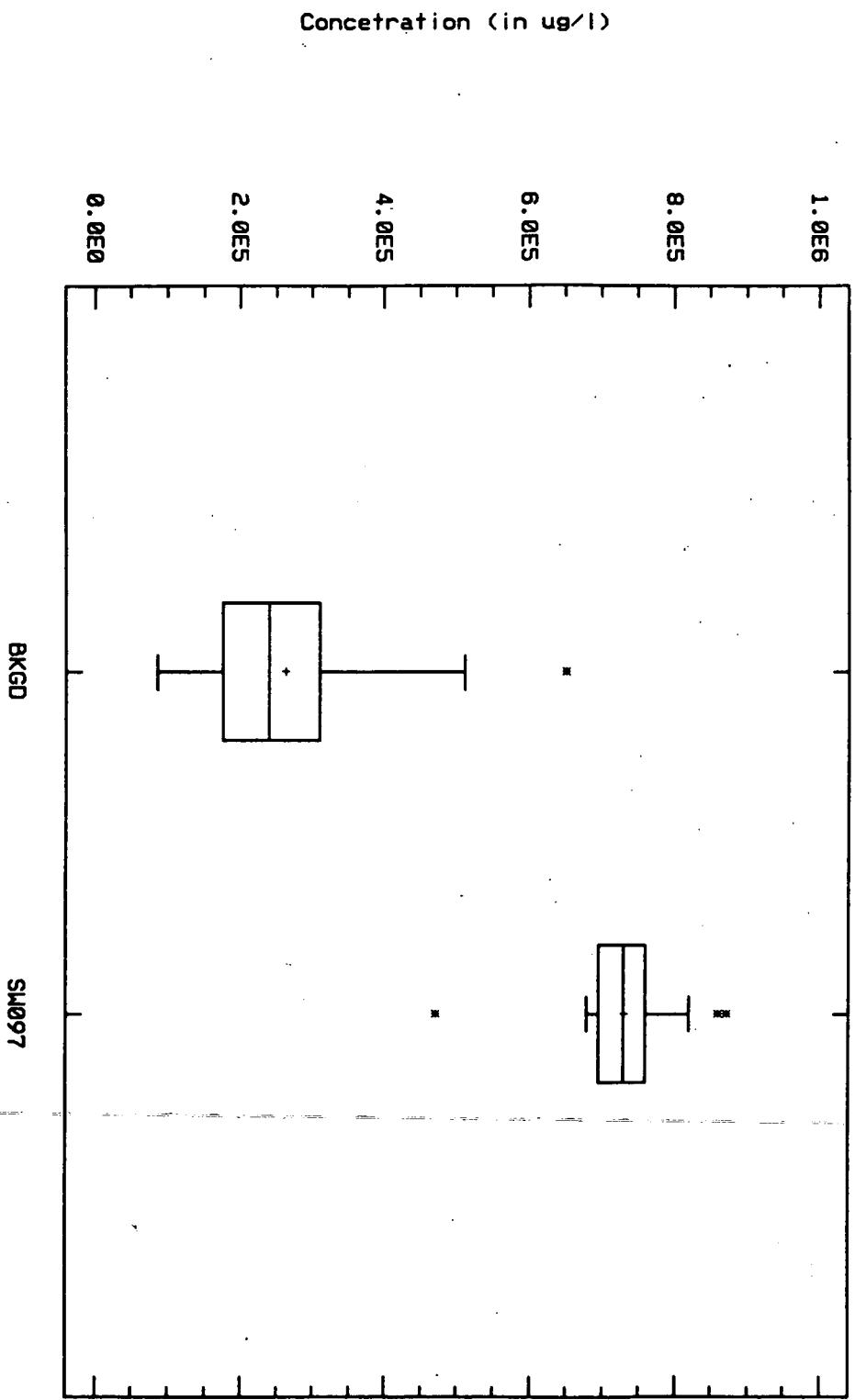
Background vs. OUT



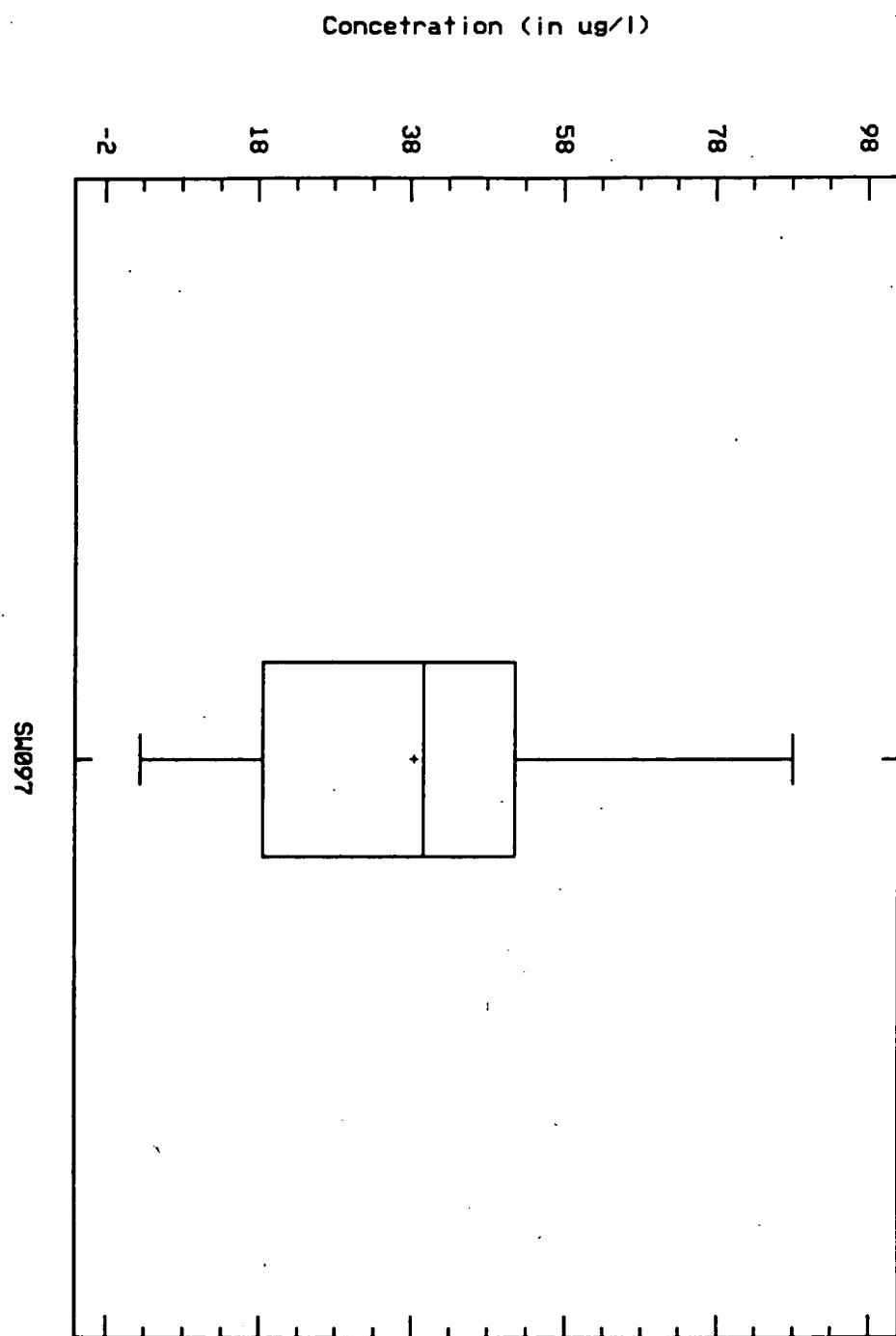
Total Organic Carbon(Total): Seep Water
Background vs. OUT



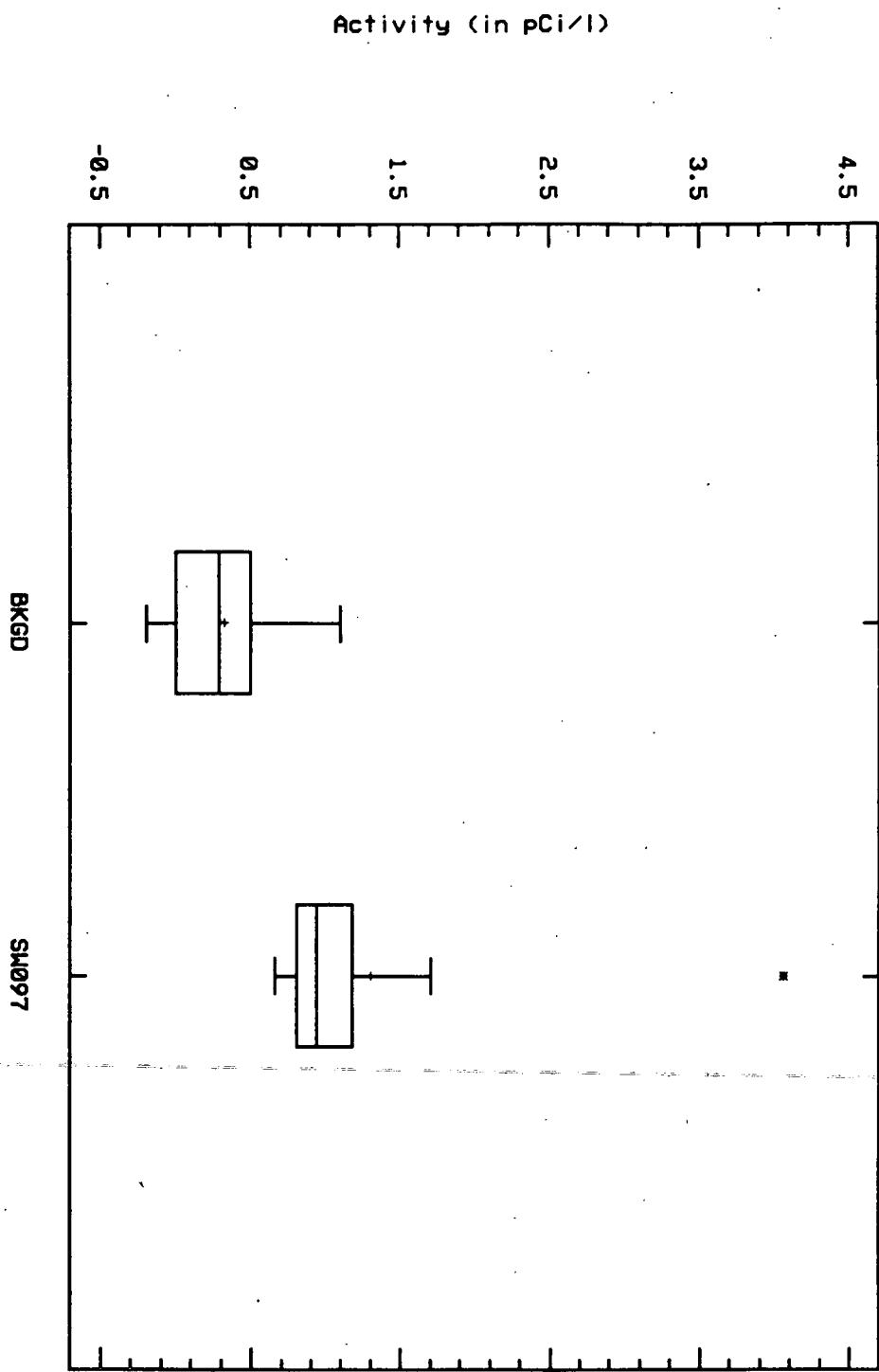
Total Dis. Solids (Total): Seep Water
Background vs. OUT



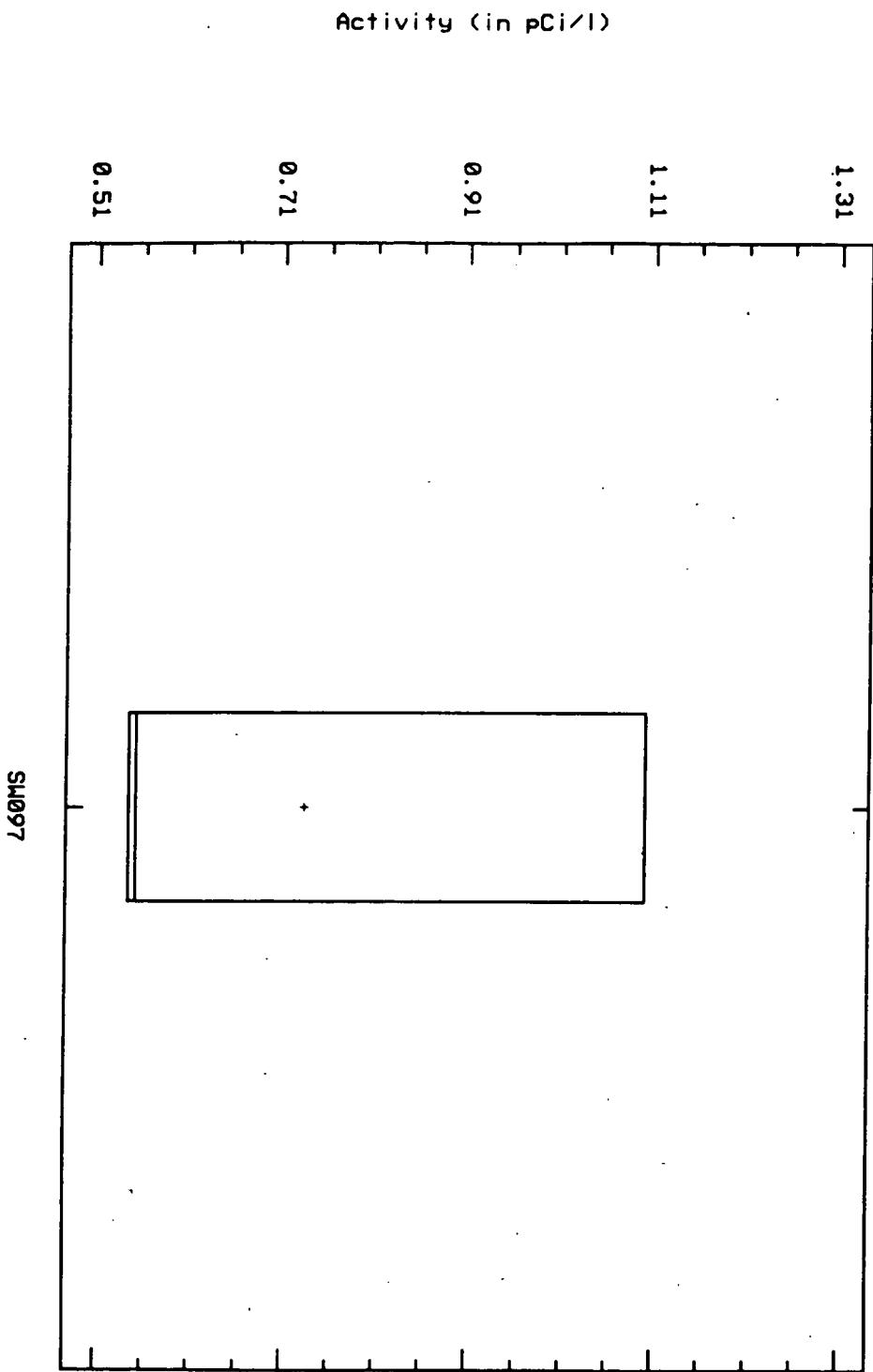
Toluene (Total): Seep Water
Background vs. OUT



Strontium-89,90 (Total): Seep Water
Background vs. OU7

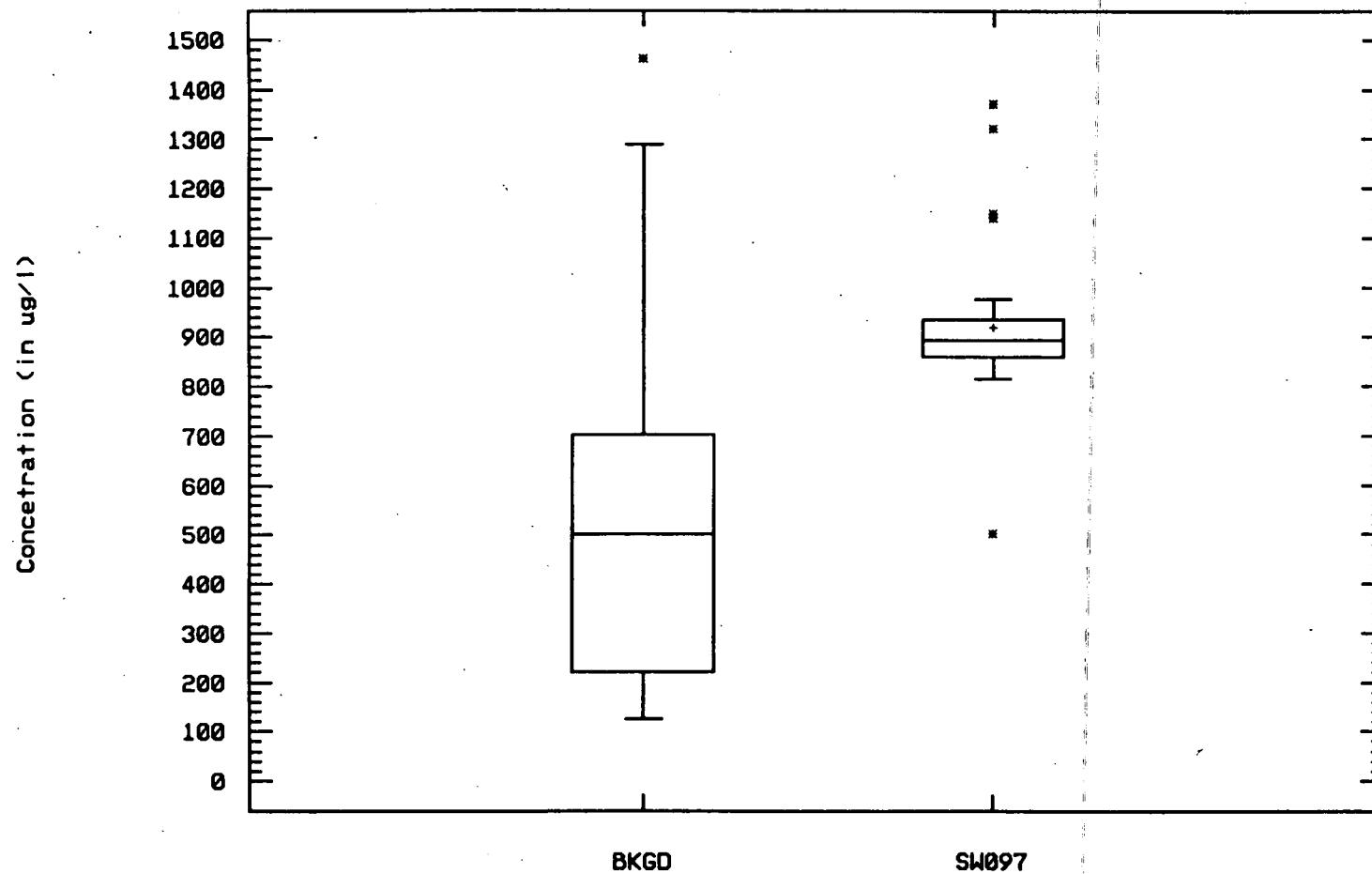


Strontium-90 (Total): Seep Water
Background vs. OUT

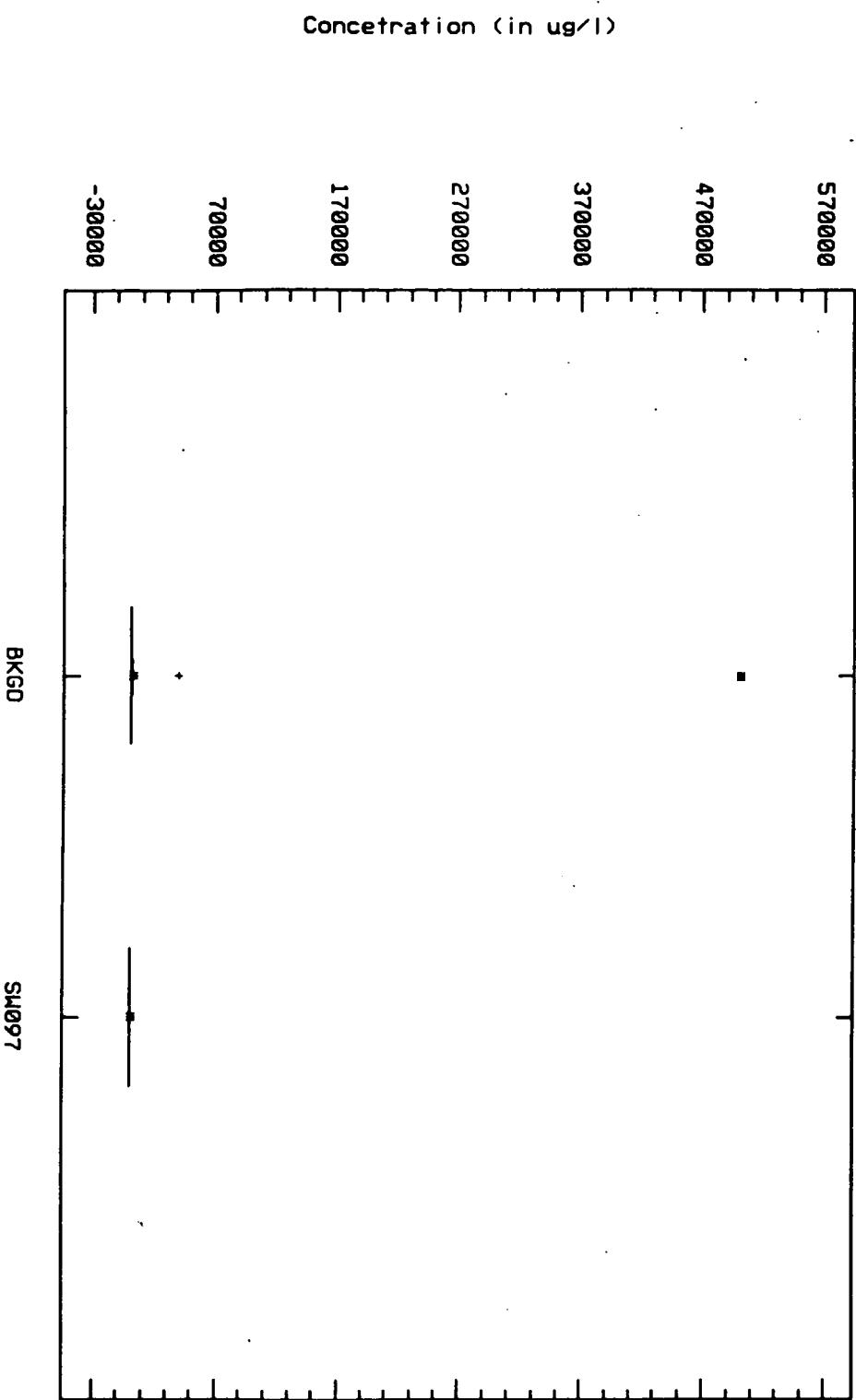


Strontium (Total): Seep Water

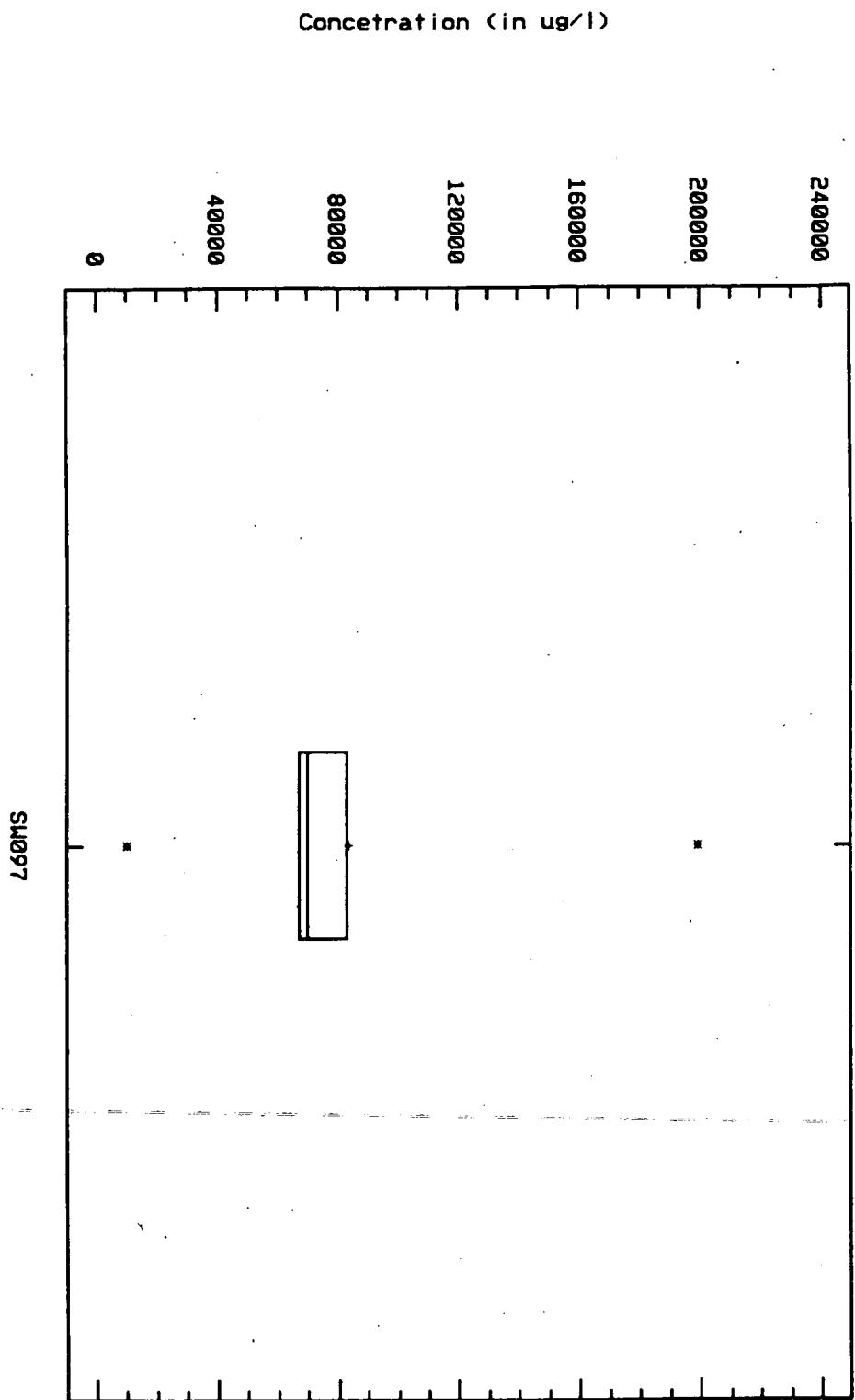
Background vs. 0U7



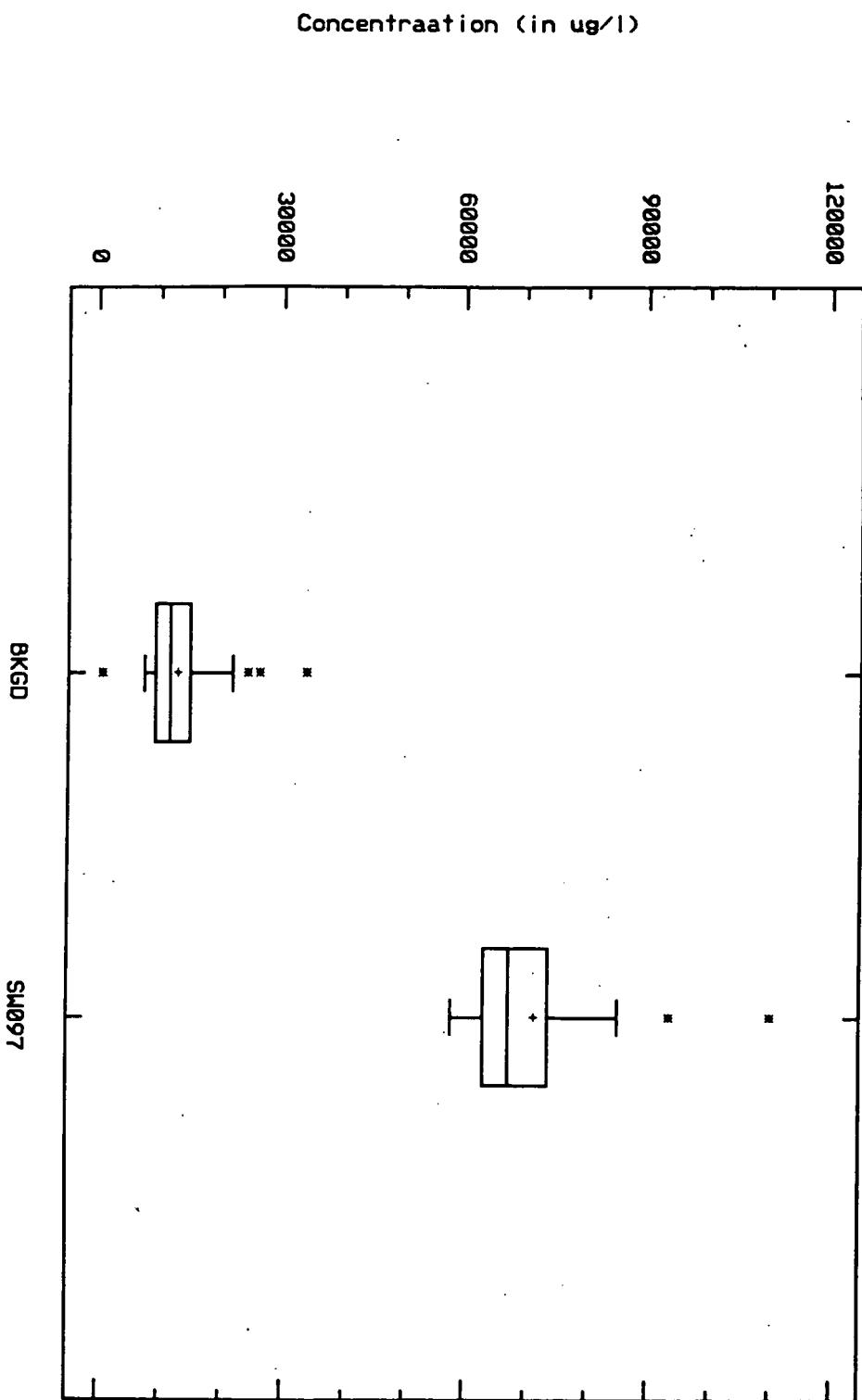
Strontium (Total): Seep Water
Background vs. OUT



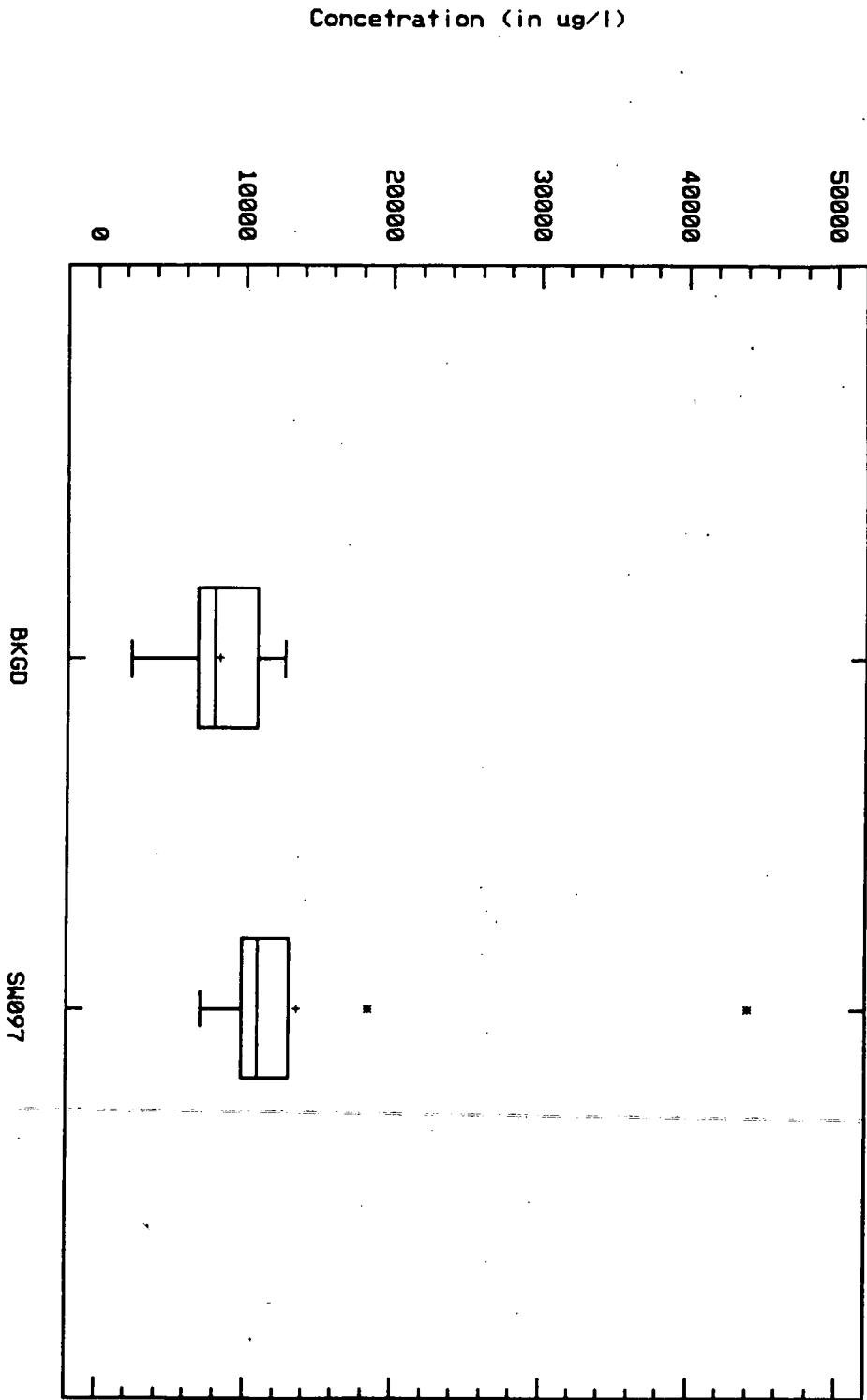
Solids Nonvolatile Sus. Total:Seep Water
Background vs. OUT



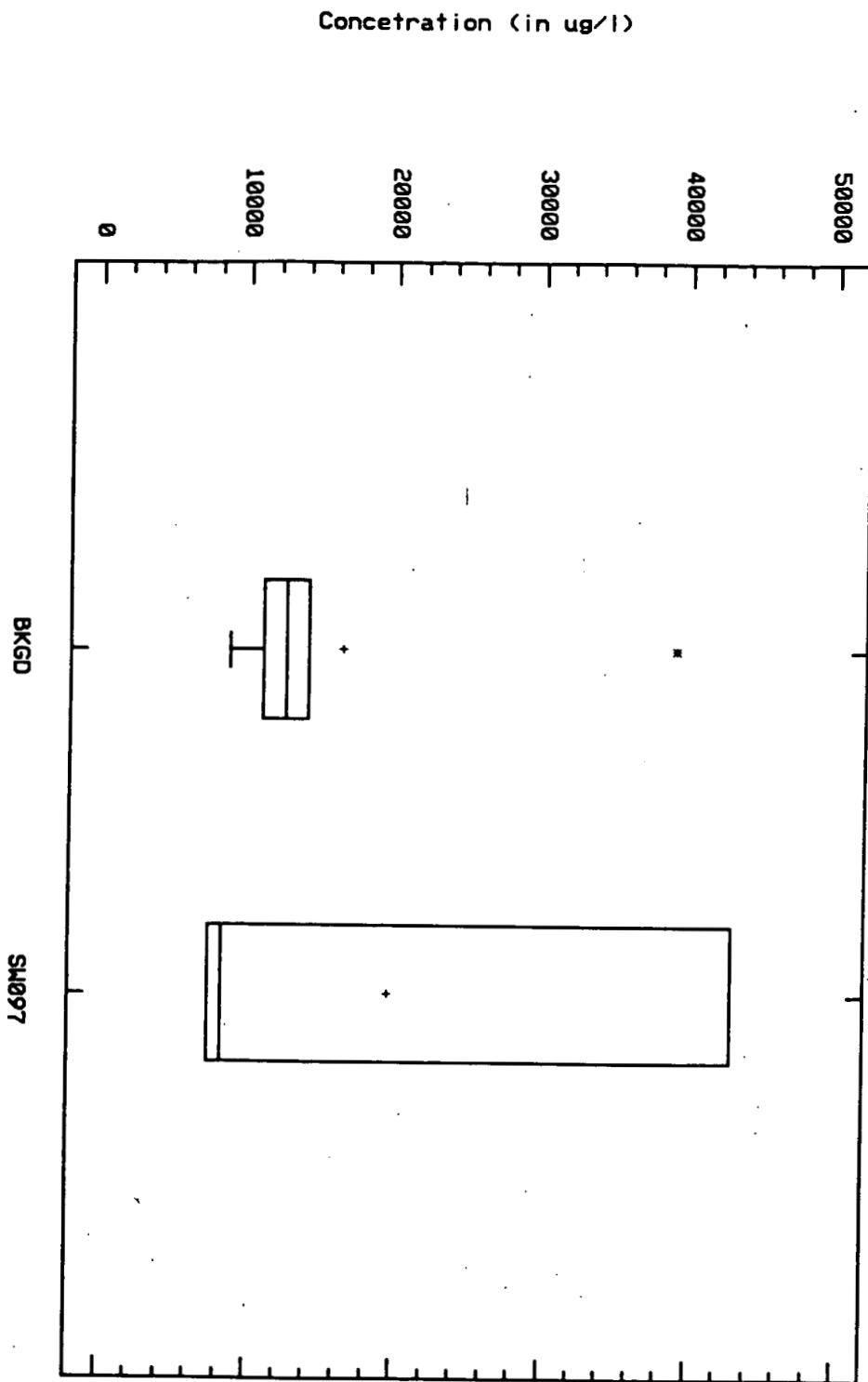
Sodium (Total): Seep Water
Background vs. DUT



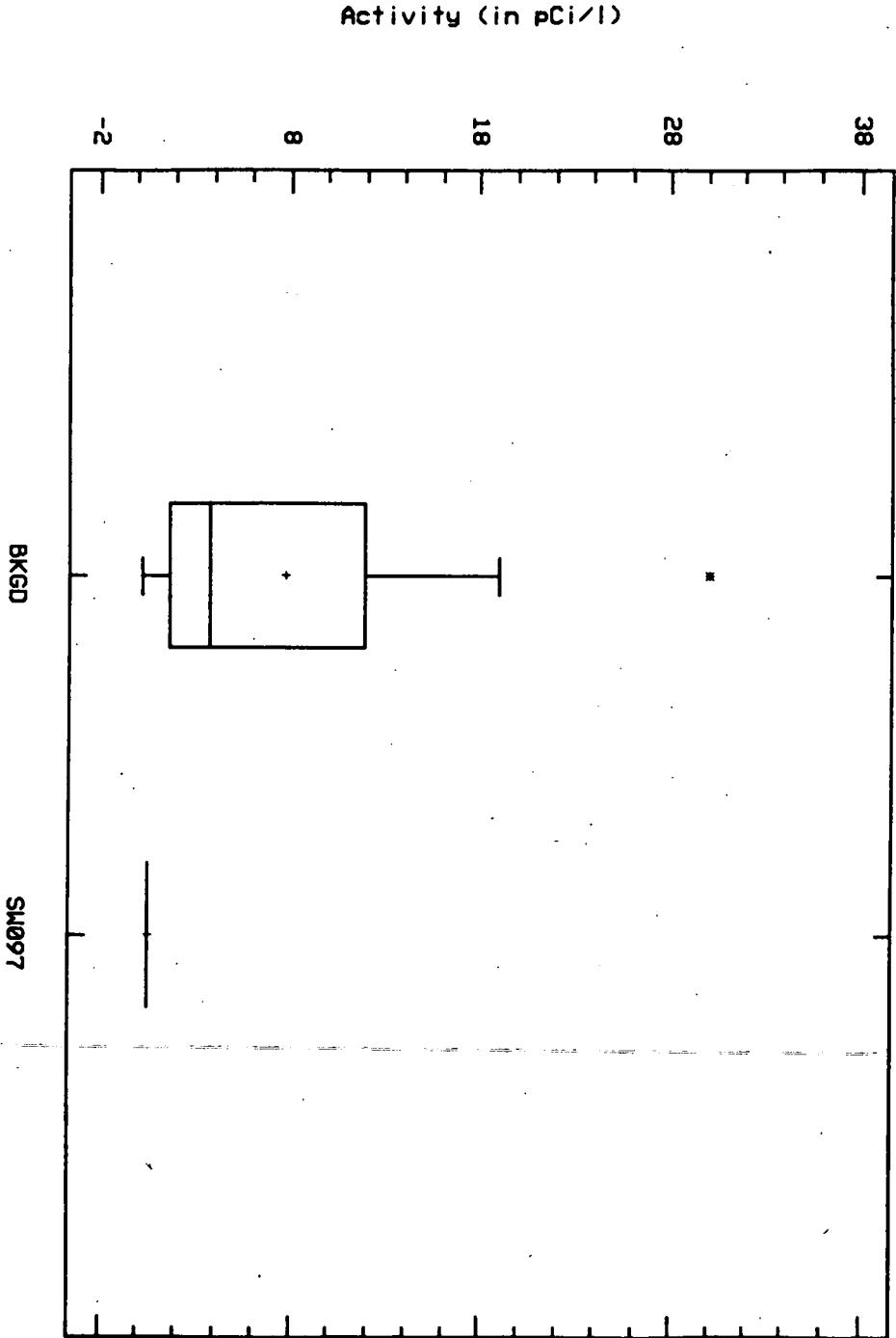
Silicon (Total): Seep Water
Background vs. OUT



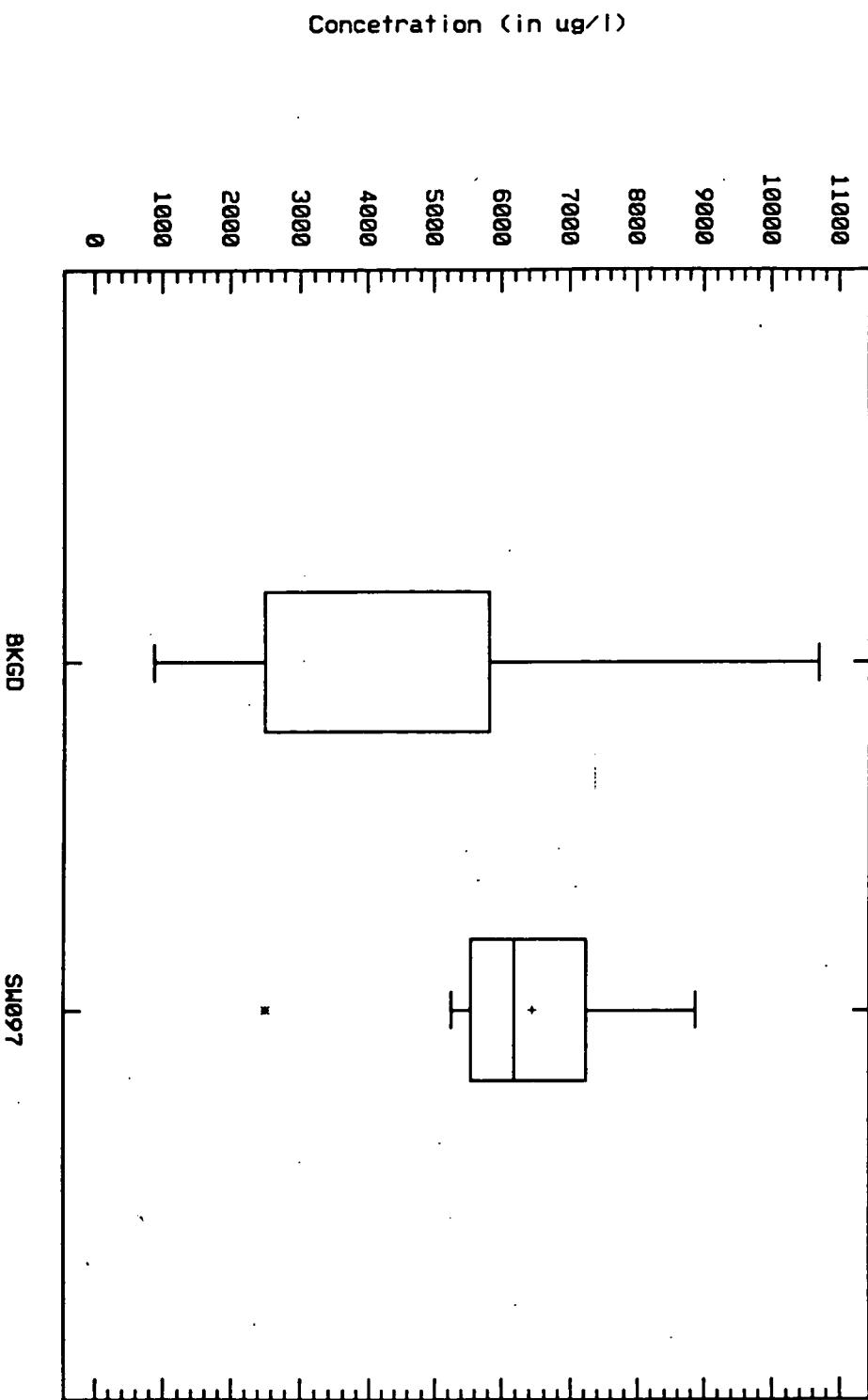
Silica (Total): Seep Water
Background vs. OUT



Radium 226 (Total): Seep Water
Background vs. OUT

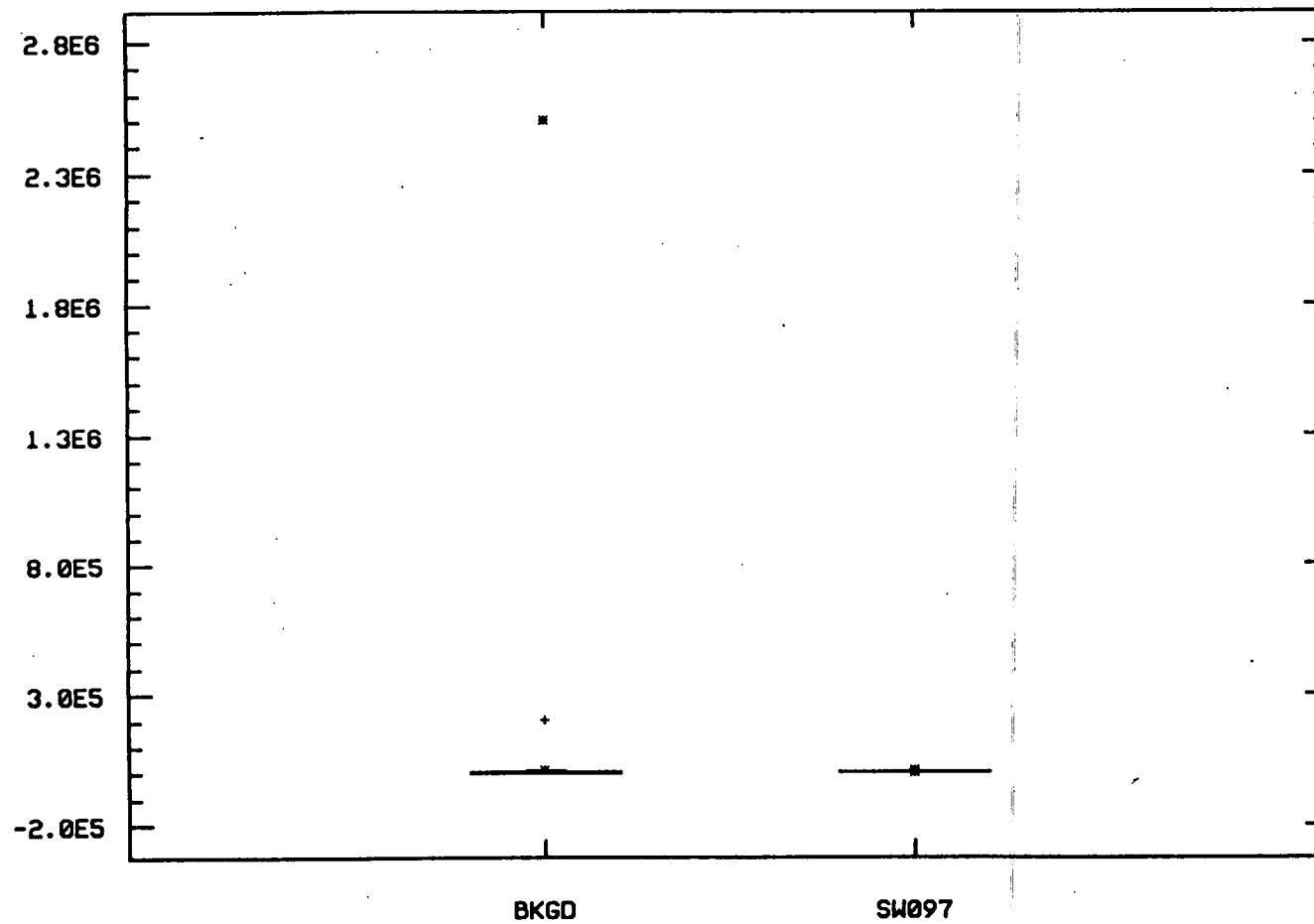


Potassium (Total): Seep Water
Background vs. 0U7

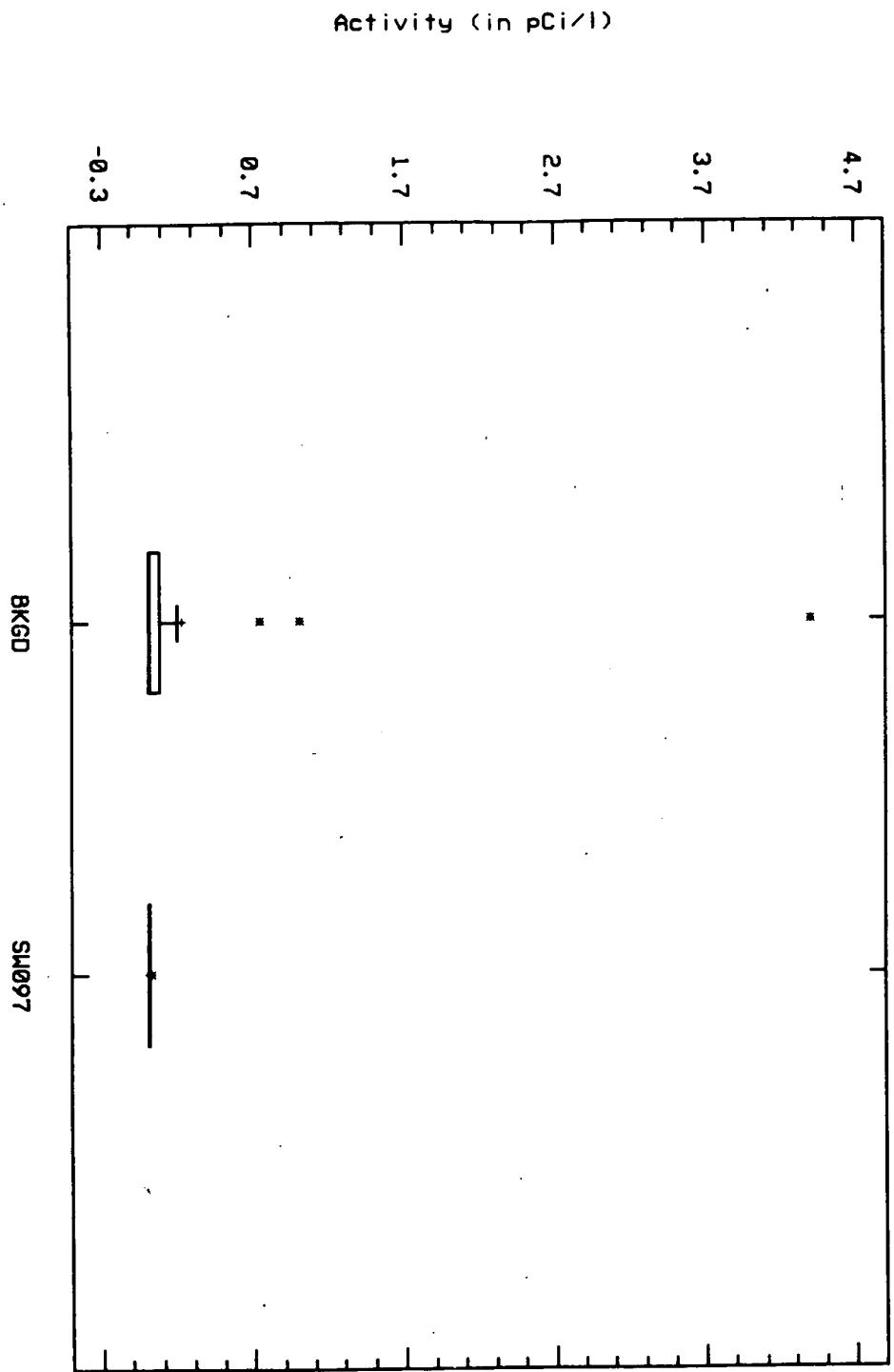


Concentration (in ug/l)

Potassium (Total): Seep Water
Background vs. OU7

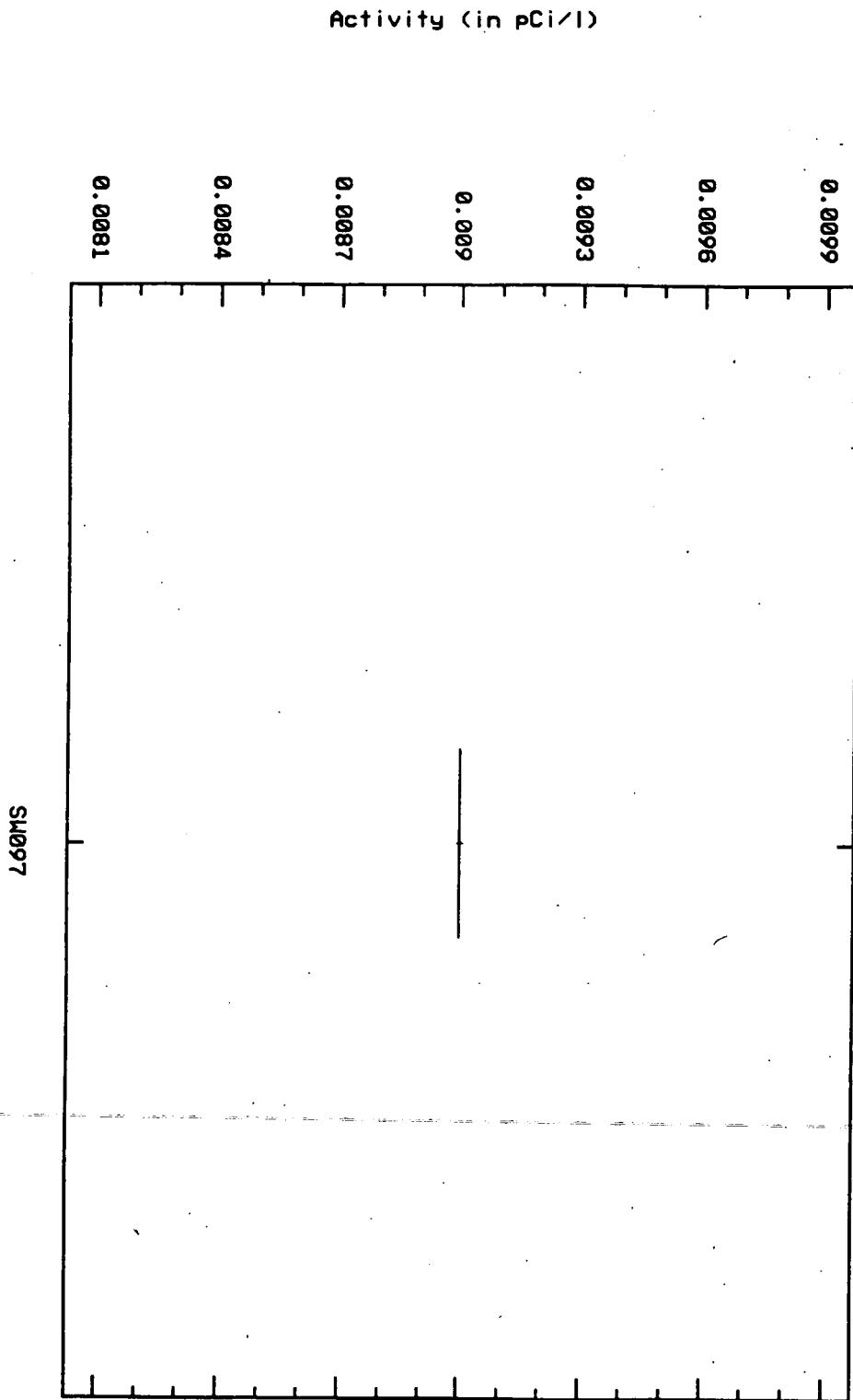


Plutonium-239/240 (Total): Seep Water
Background vs. OUT



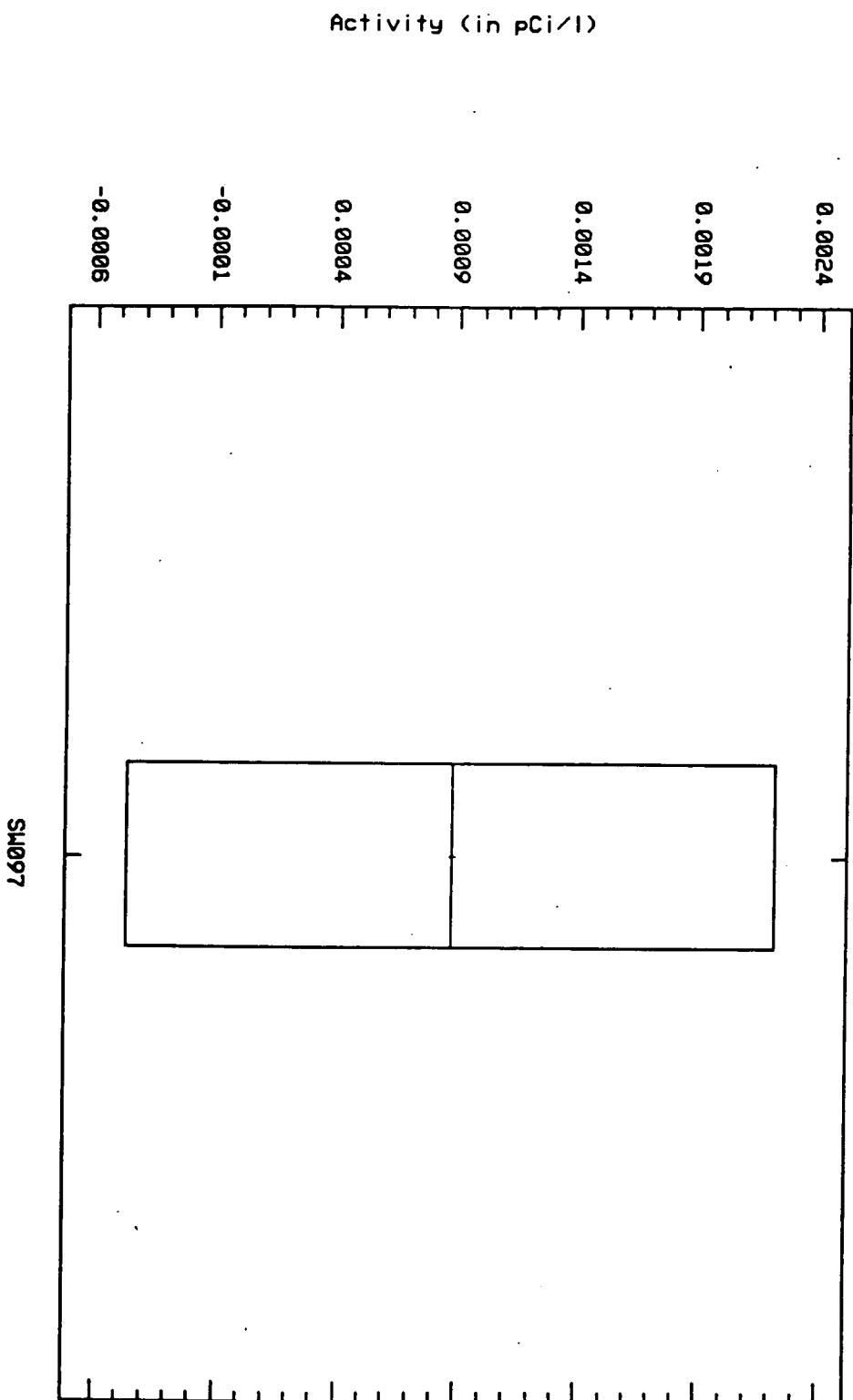
Plutonium-239 (Total): Seep Water

Background vs. OUT

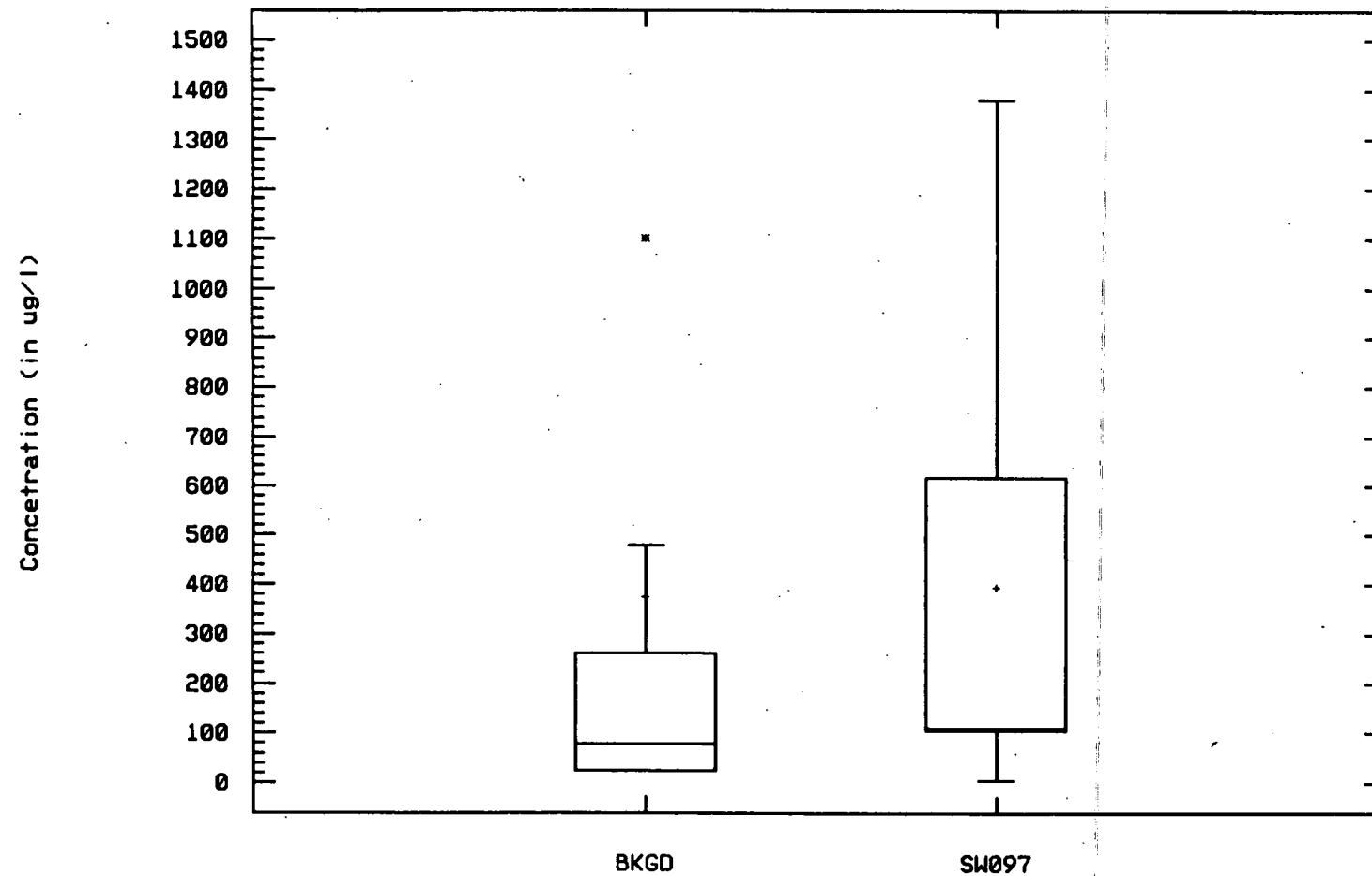


Plutonium-238 (Total): Seep Water

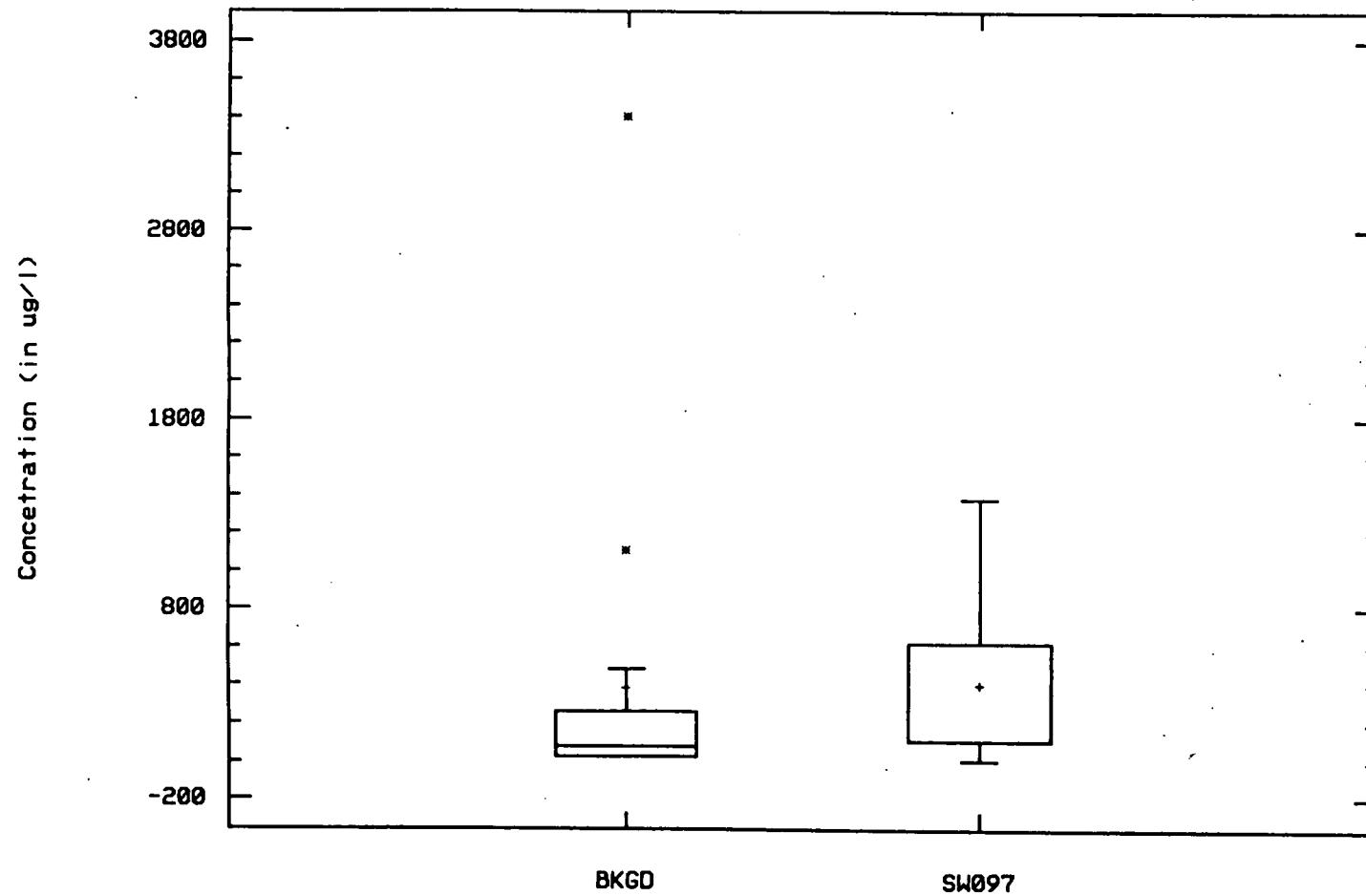
Background vs. OUT



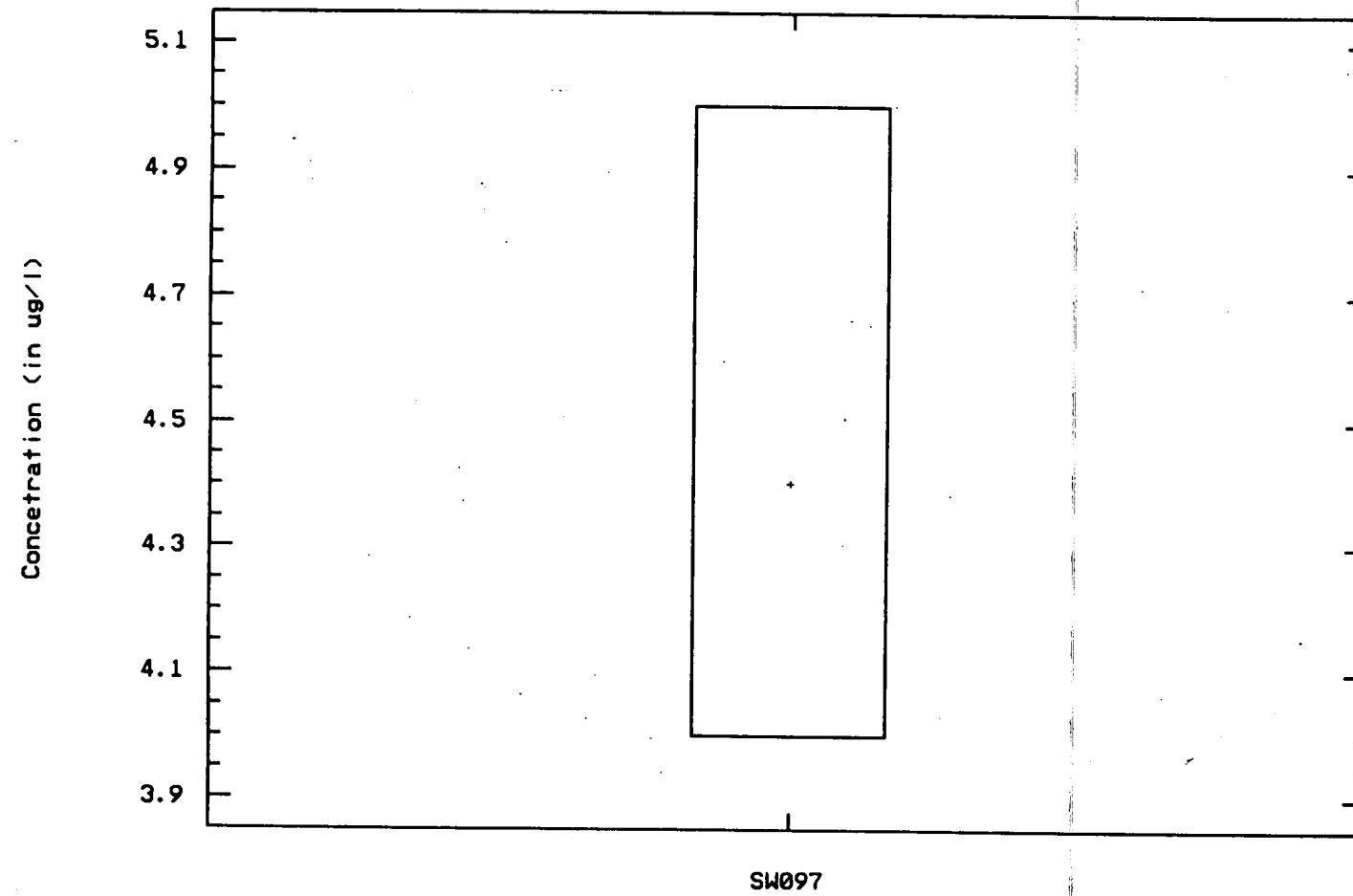
Phosphorus (Total): Seep Water
Background vs. 0U7



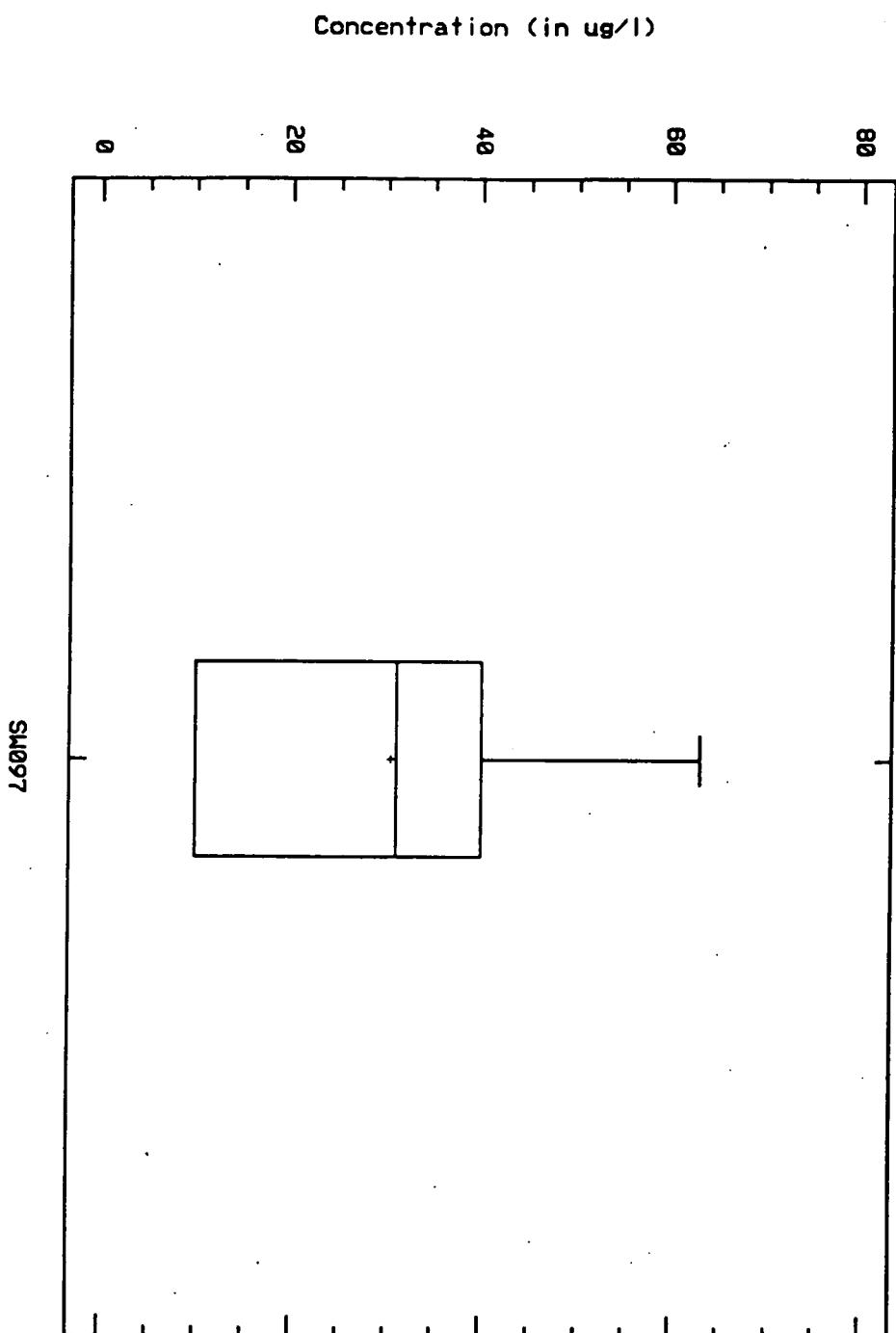
Phosphorus (Total): Seep Water
Background vs. OU7



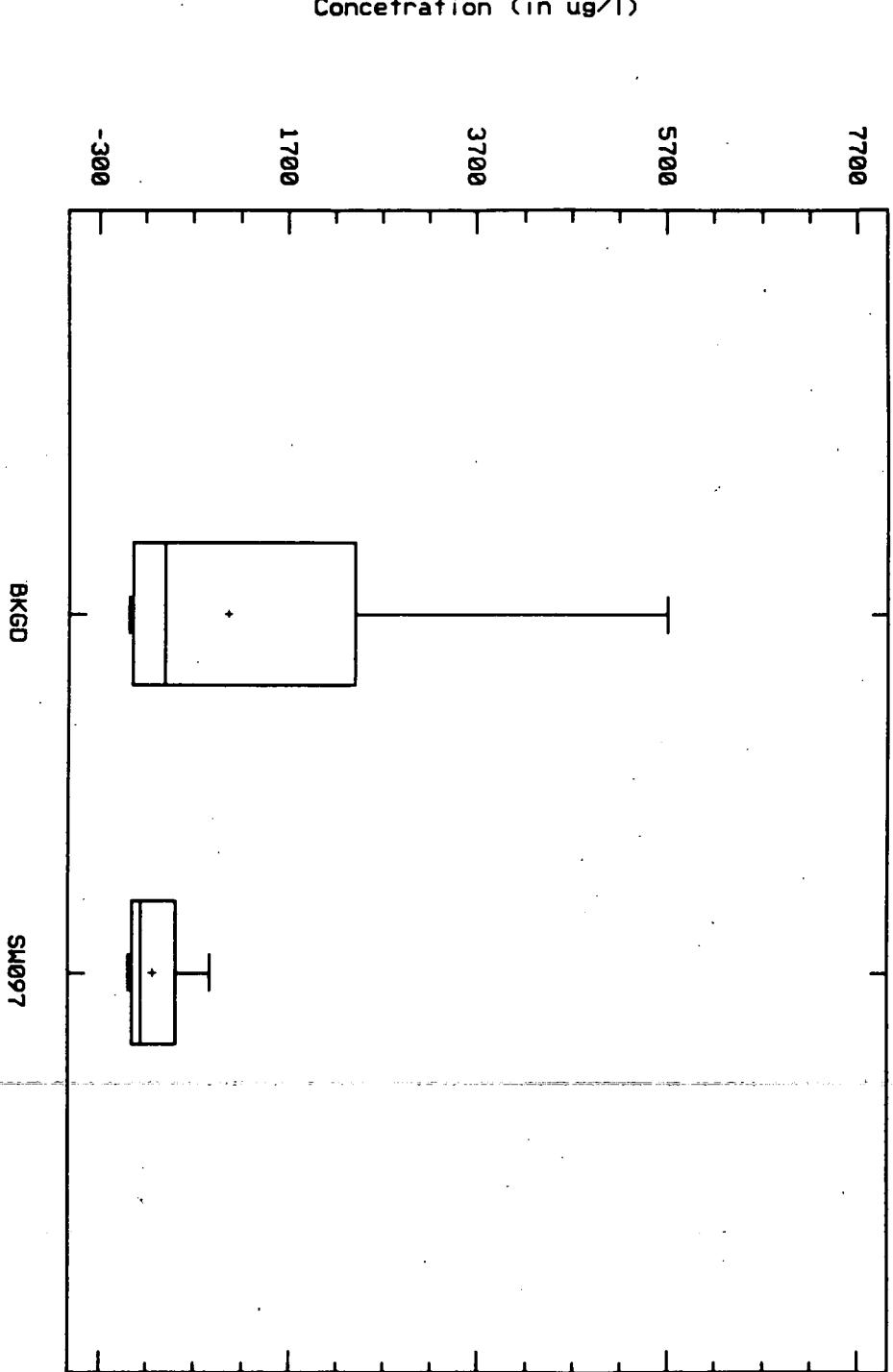
Phenanthrene (Total): Seep Water
Background vs. OU7



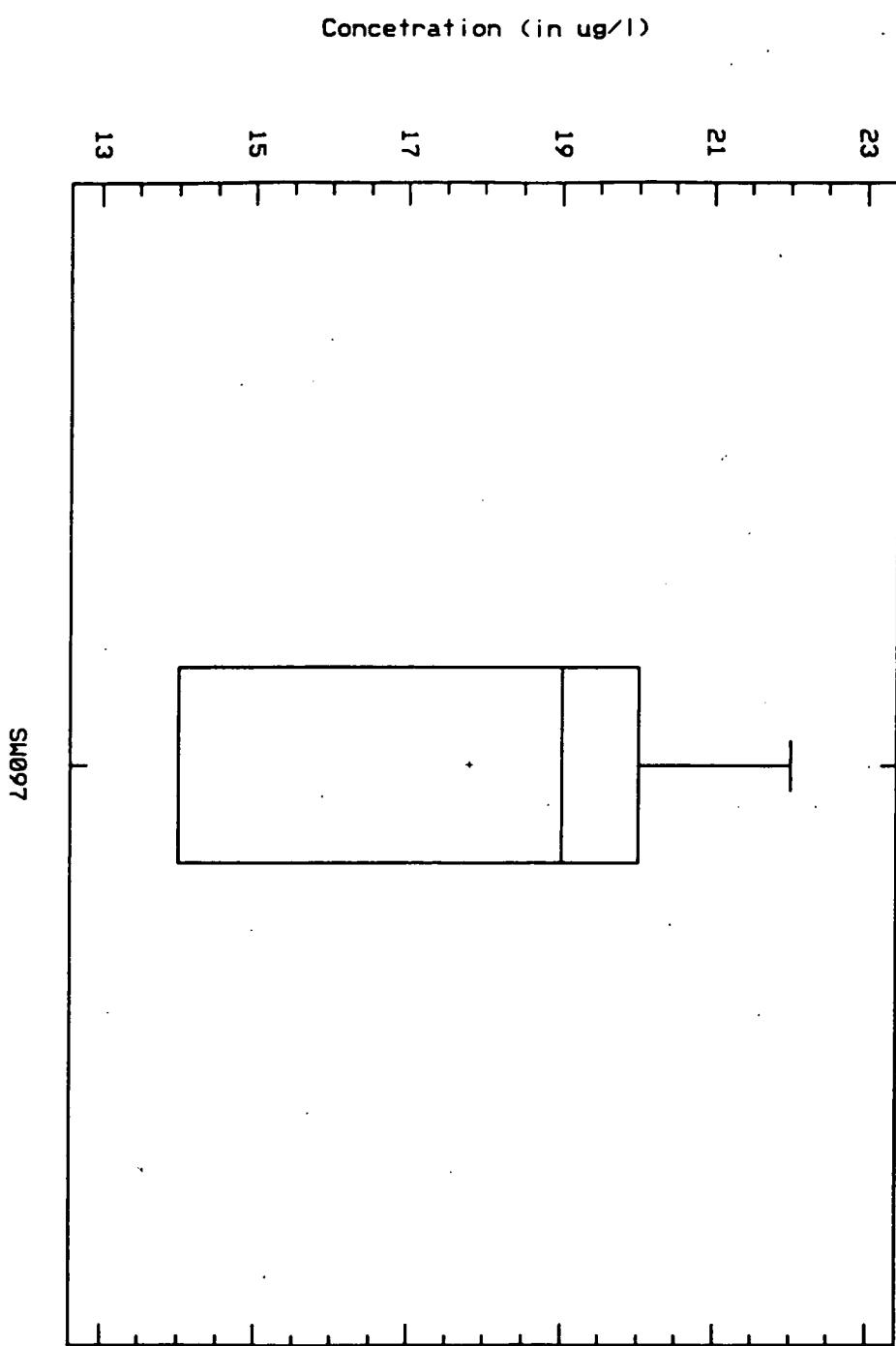
Nitrite (Total): Seep Water
Background vs. OUT



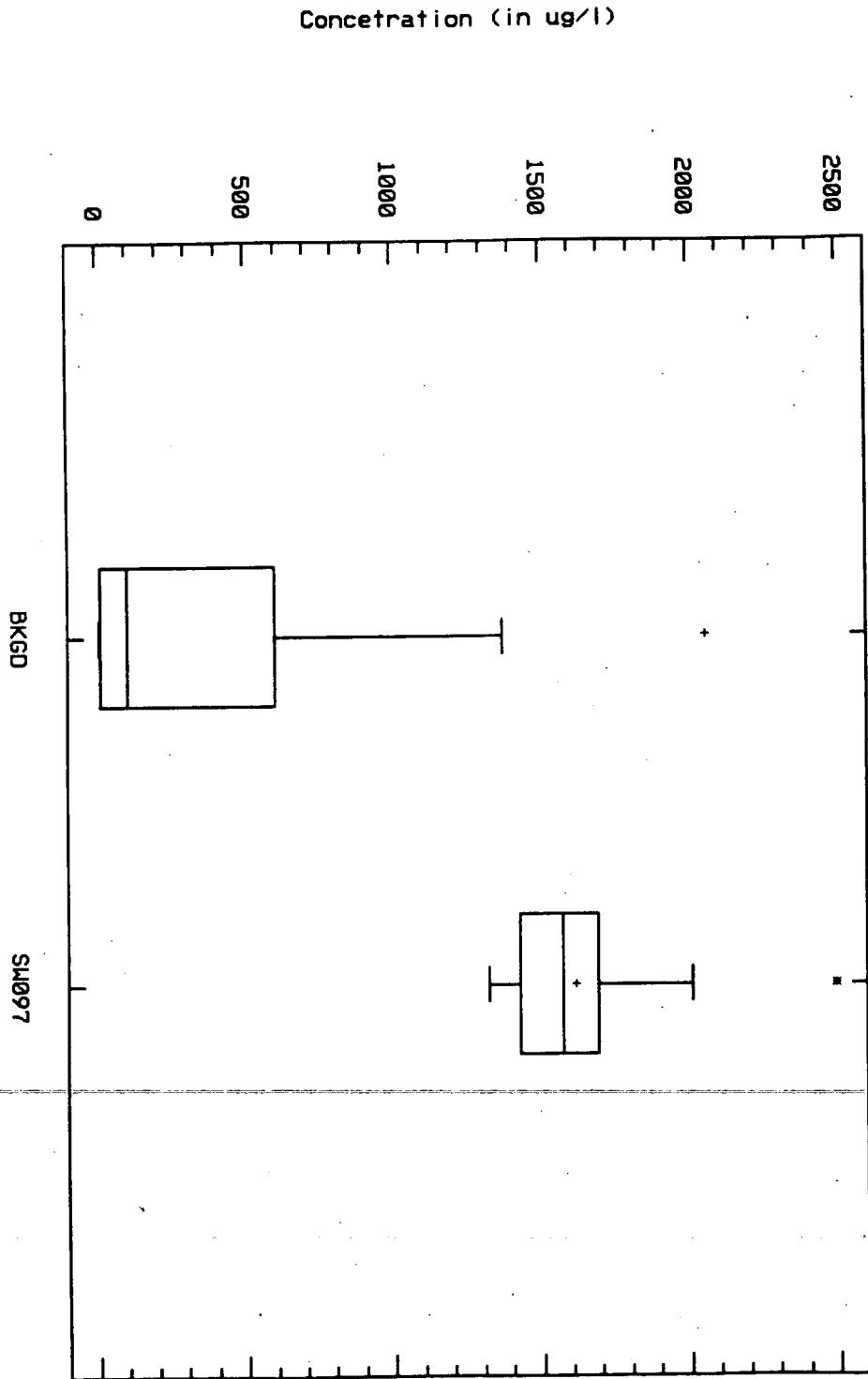
Nitrate/Nitrite (Total): Seep Water
Background vs. OUT



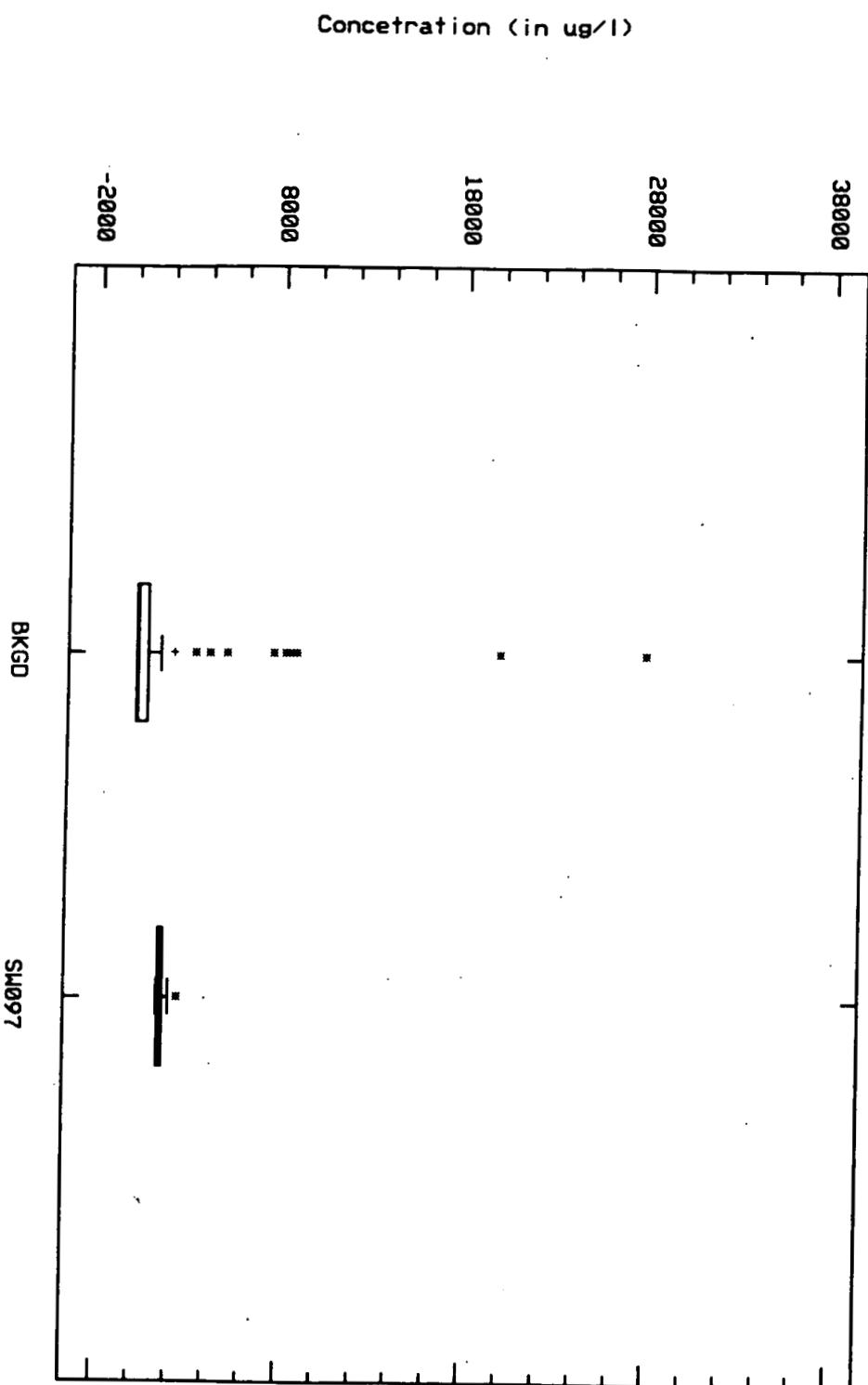
Naphthalene (Total): Seep Water
Background vs. 0U7



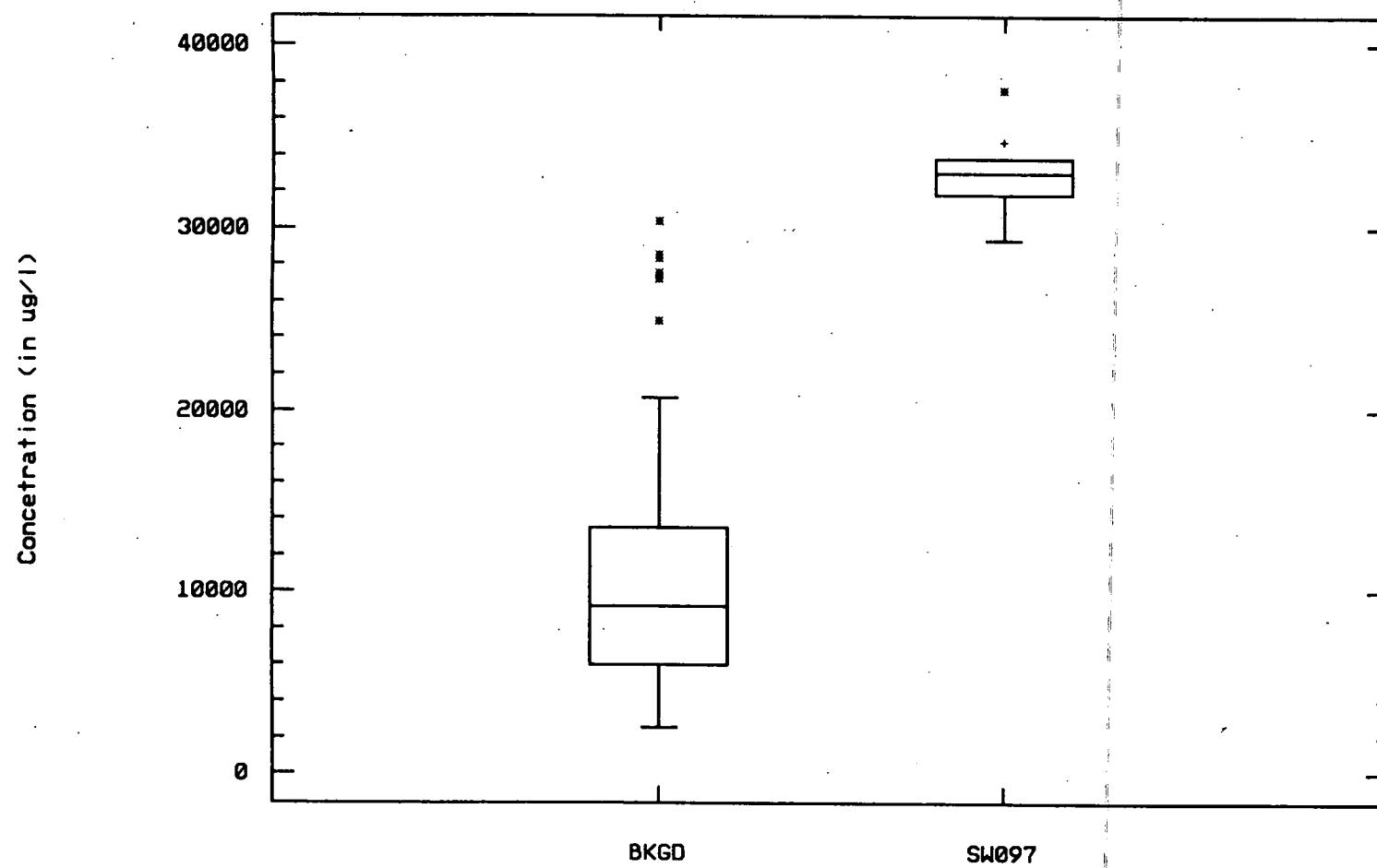
Manganese (Total): Seep Water
Background vs. OUT



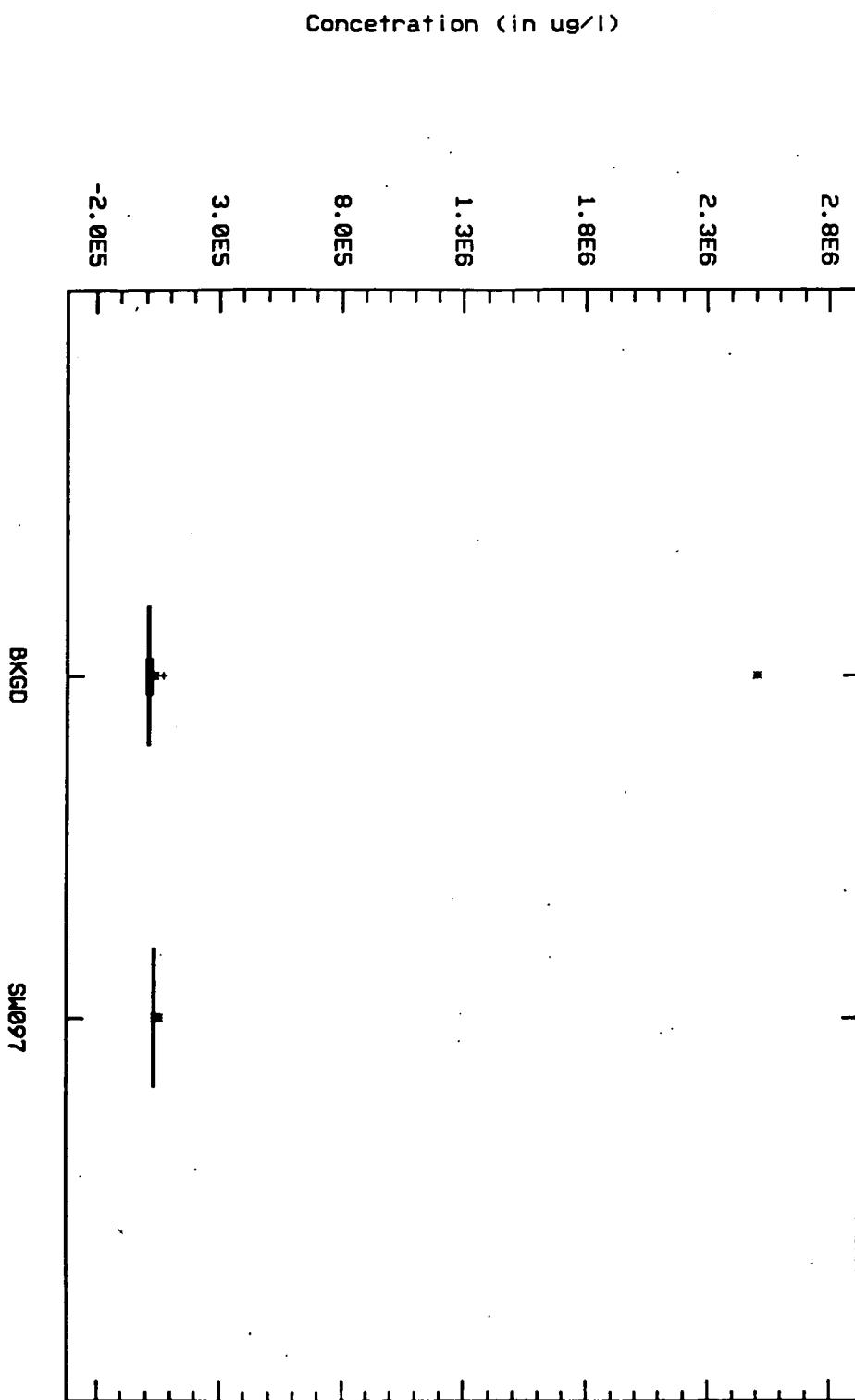
Manganese (Total): Seep Water
Background vs. OUT



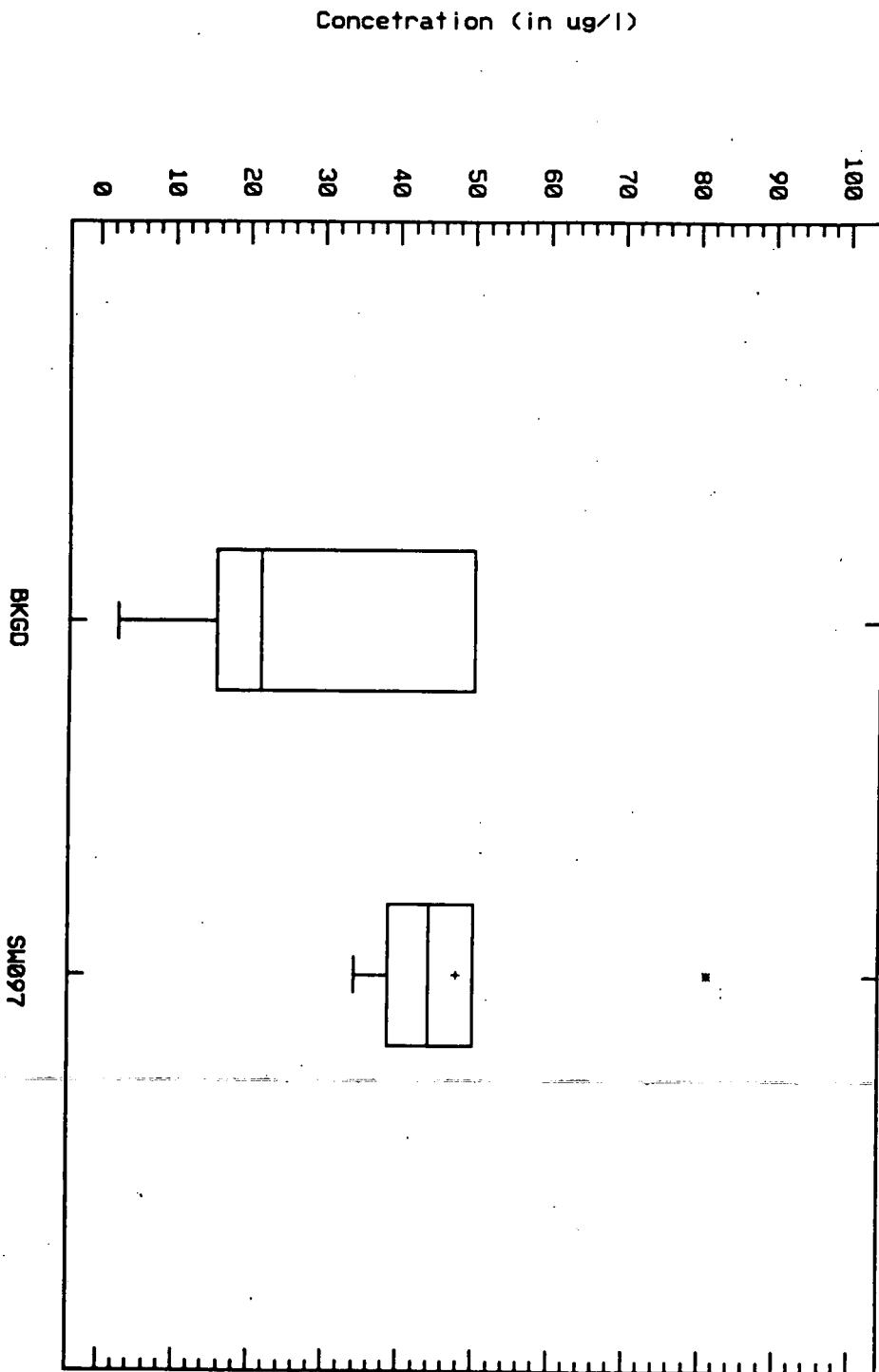
Magnesium (Total): Seep Water
Background vs. OU7



Magnesium (Total): Seep Water
Background vs. OUT

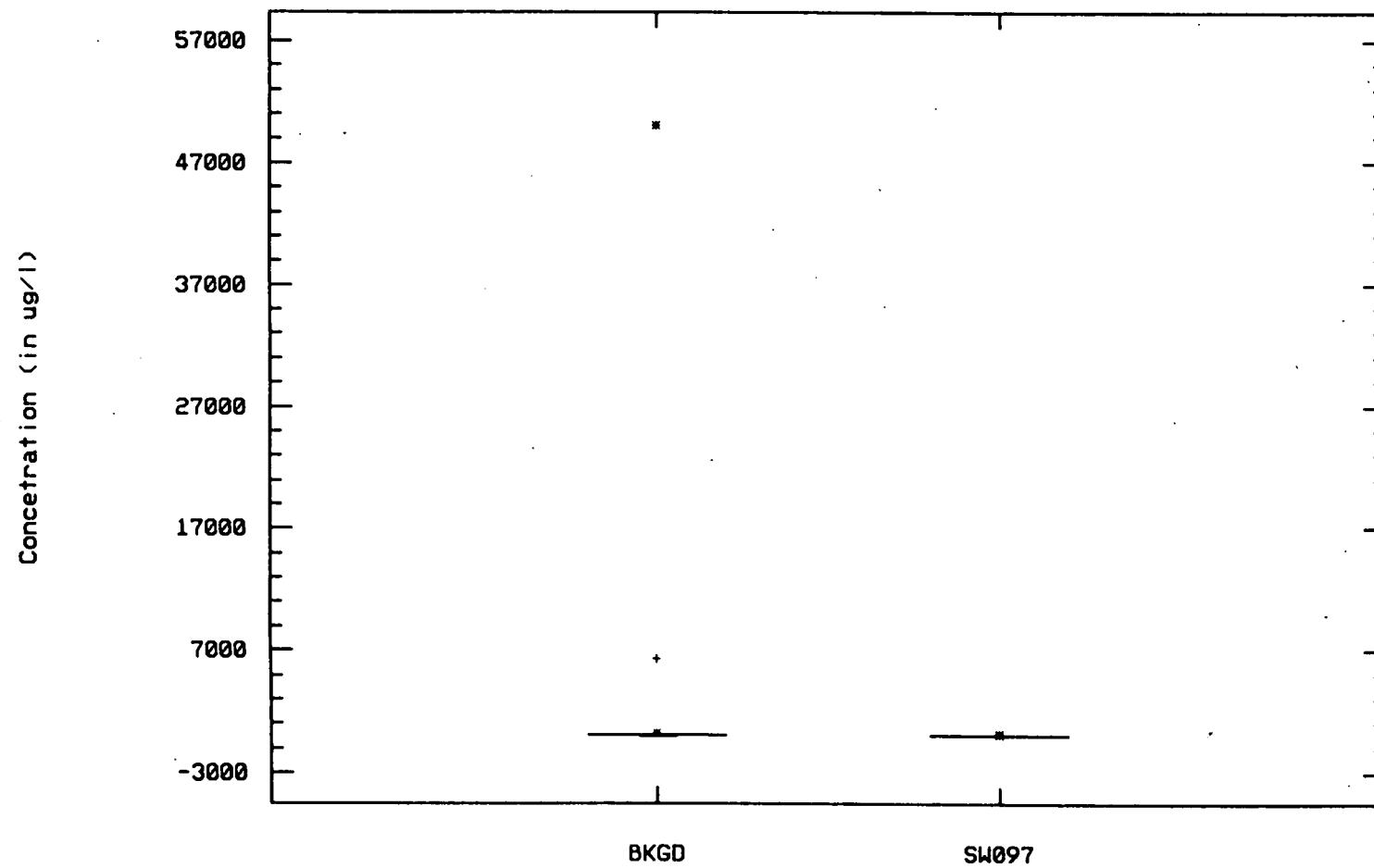


Lithium (Total): Seep Water
Background vs. OUT

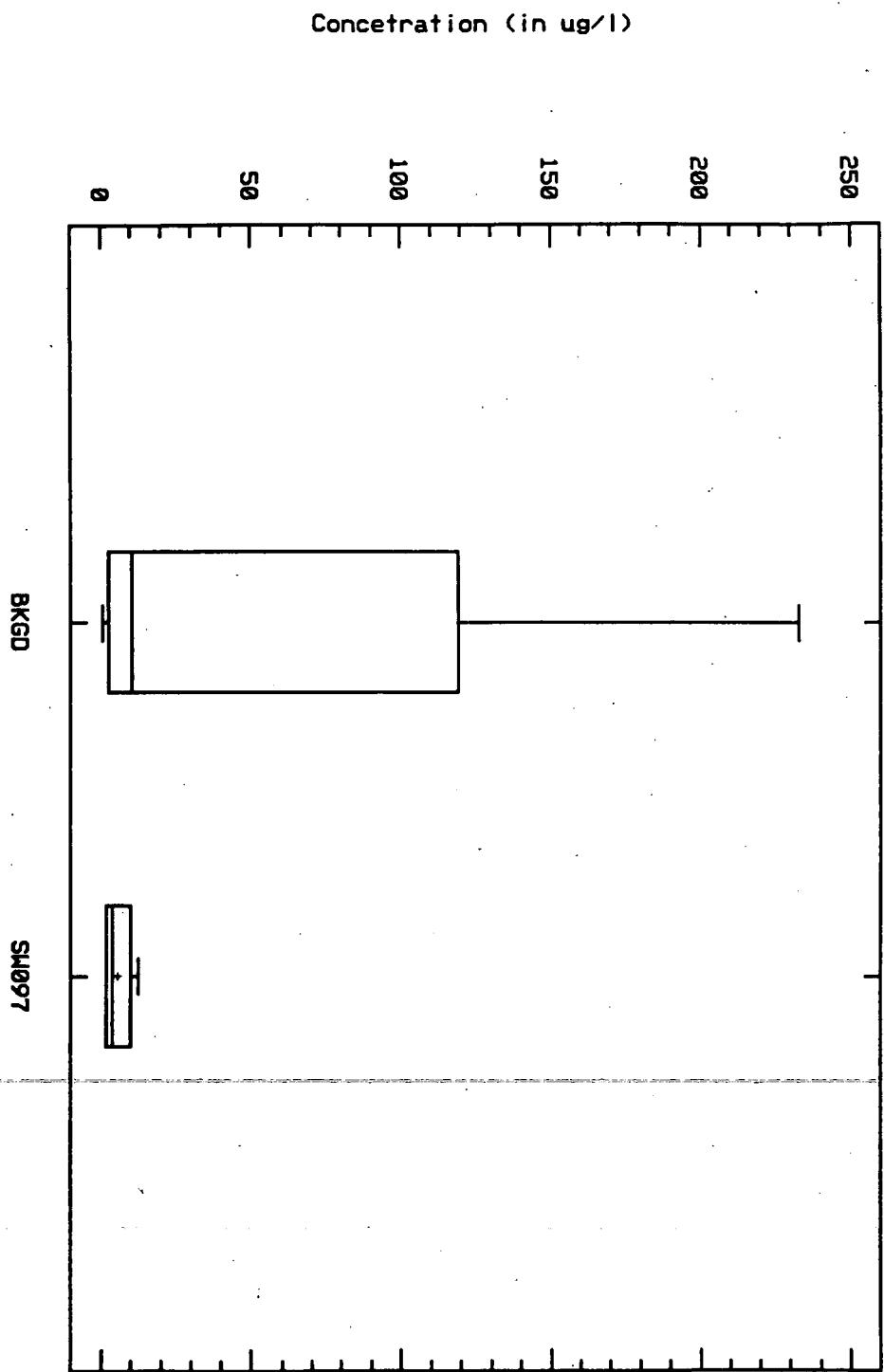


Lithium (Total): Seep Water

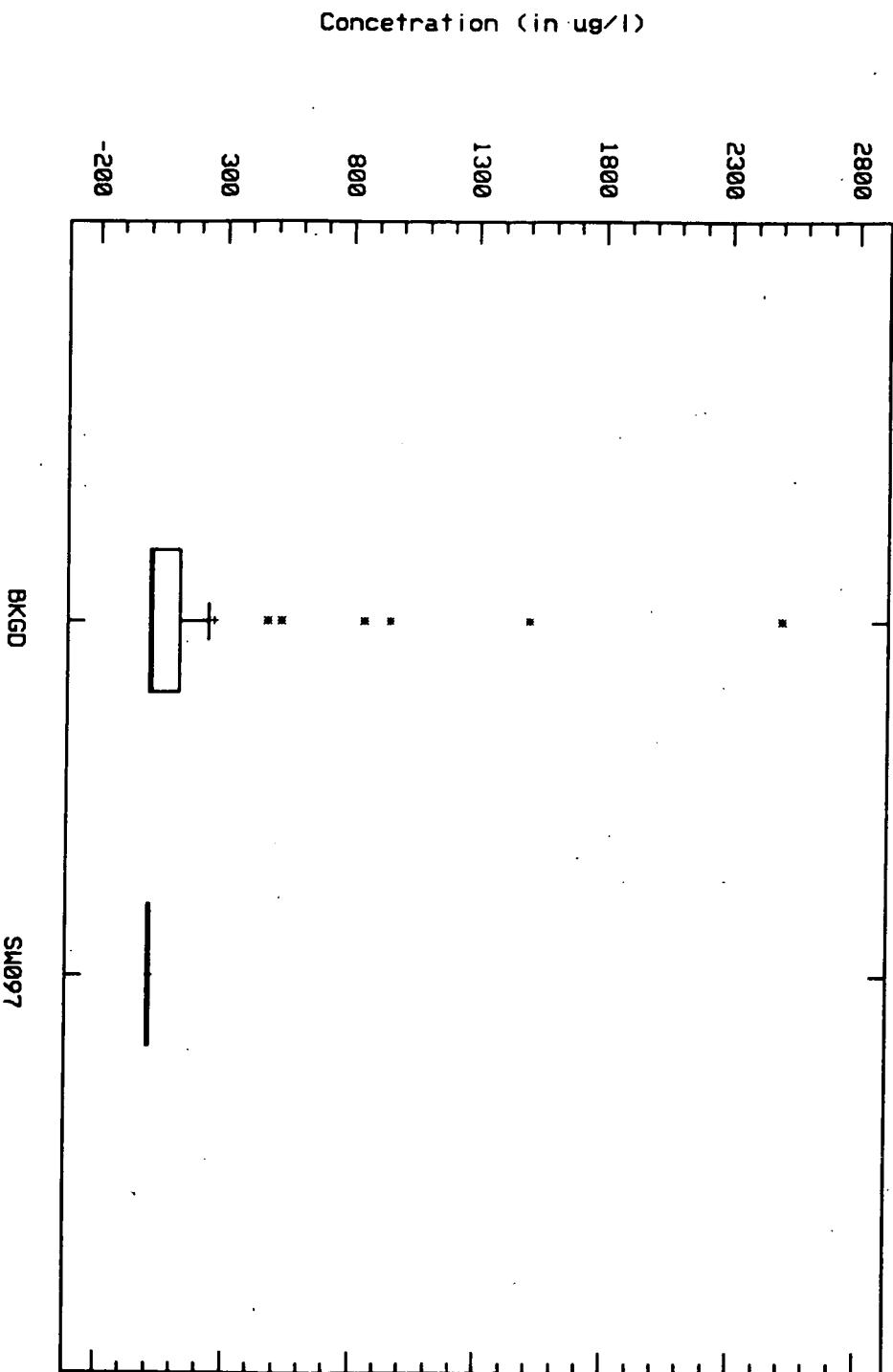
Background vs. 0U7



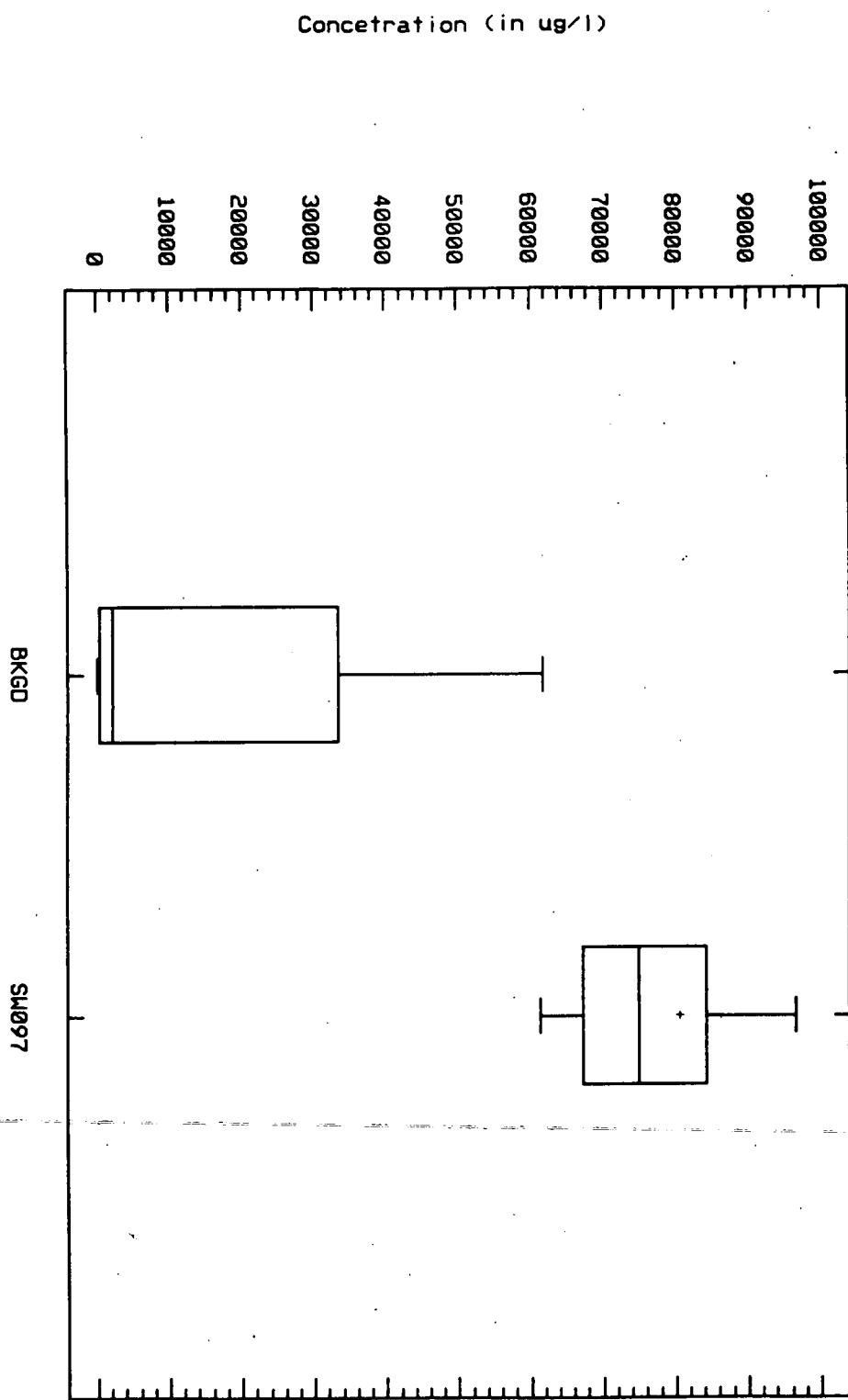
Lead (Total): Seep Water
Background vs. 0U7



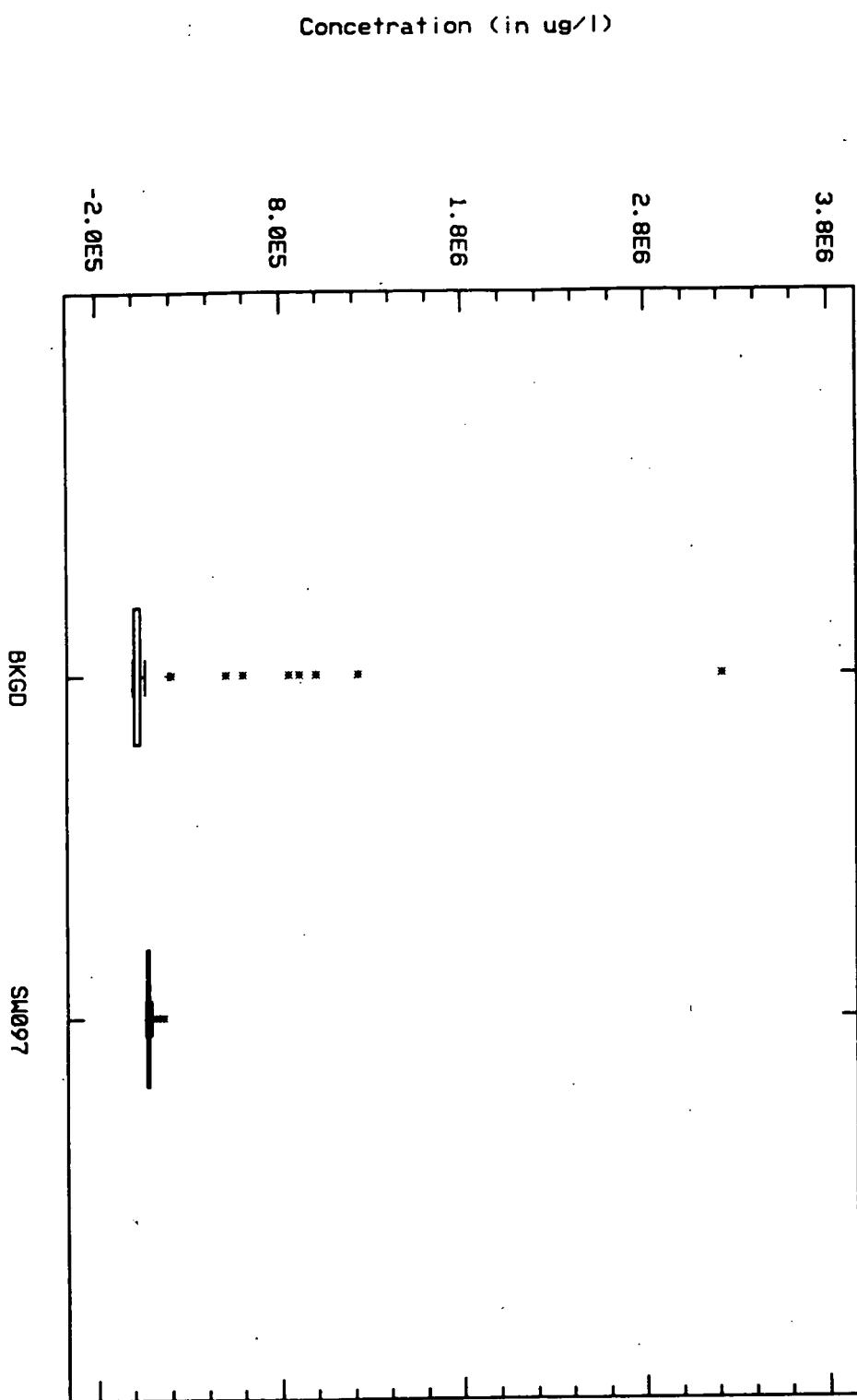
**Lead (Total): Seep Water
Background vs. DUT**



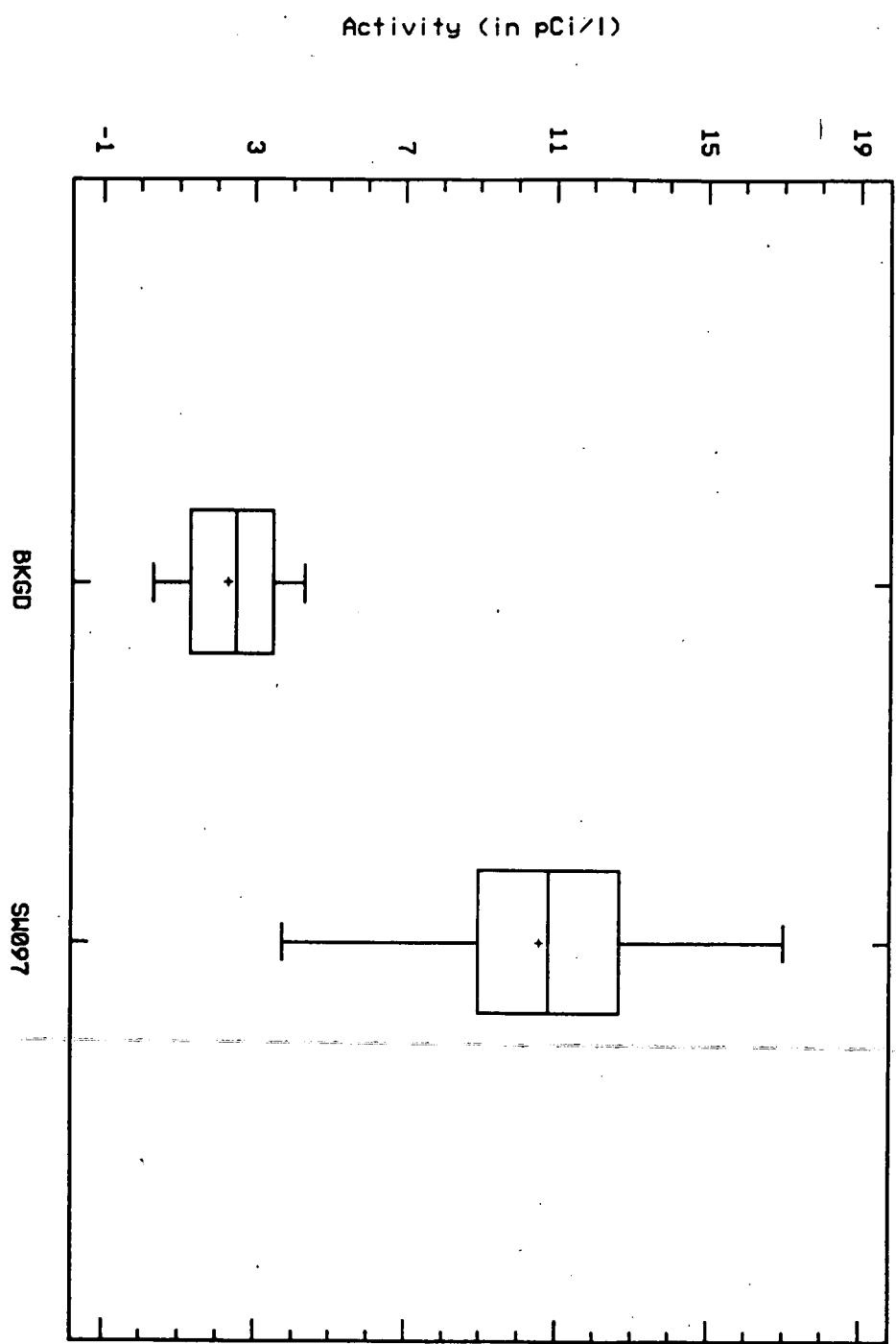
Iron (Total): Seep Water
Background vs. OUT



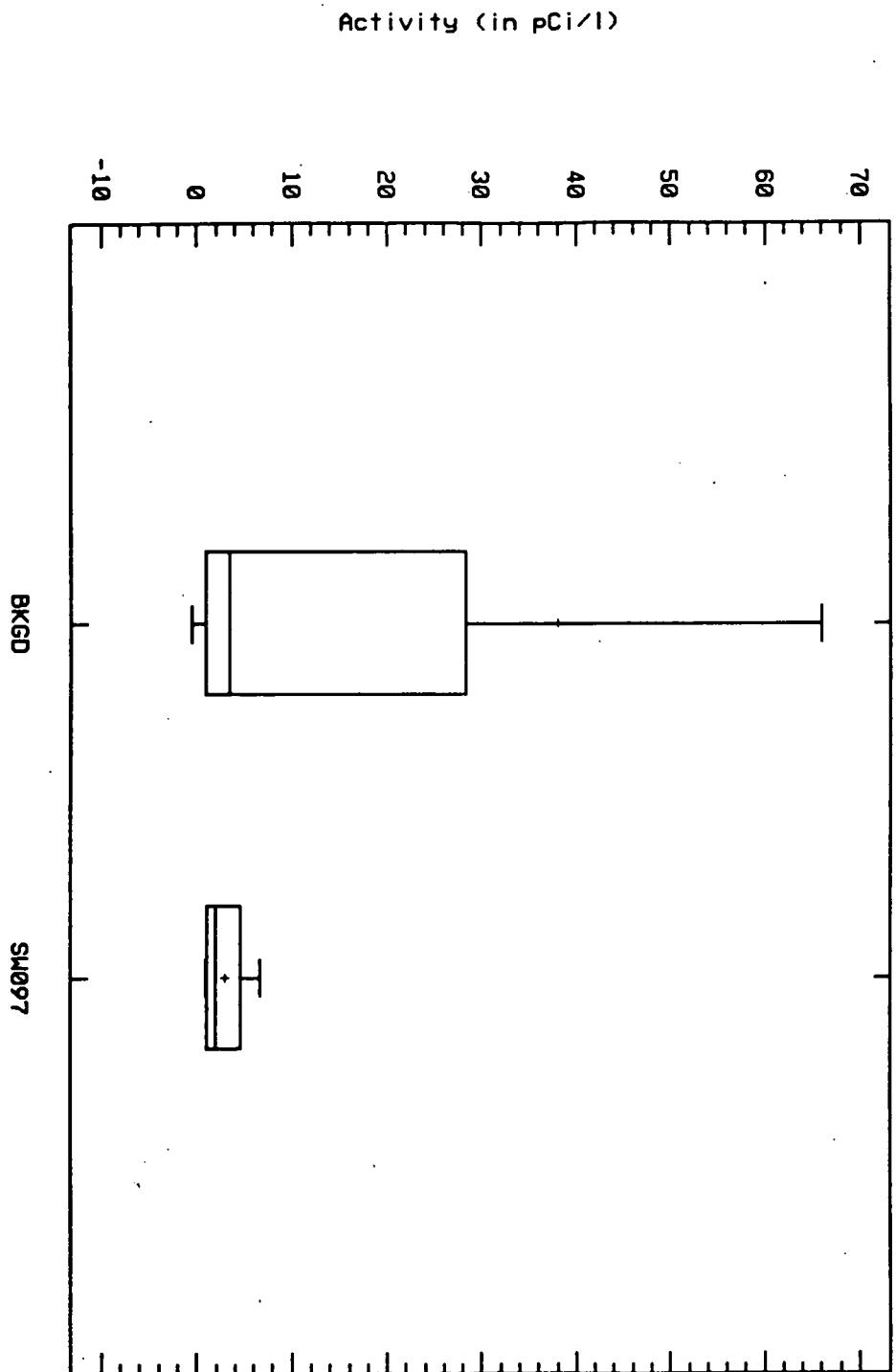
Iron (Total): Seep Water
Background vs. OUT



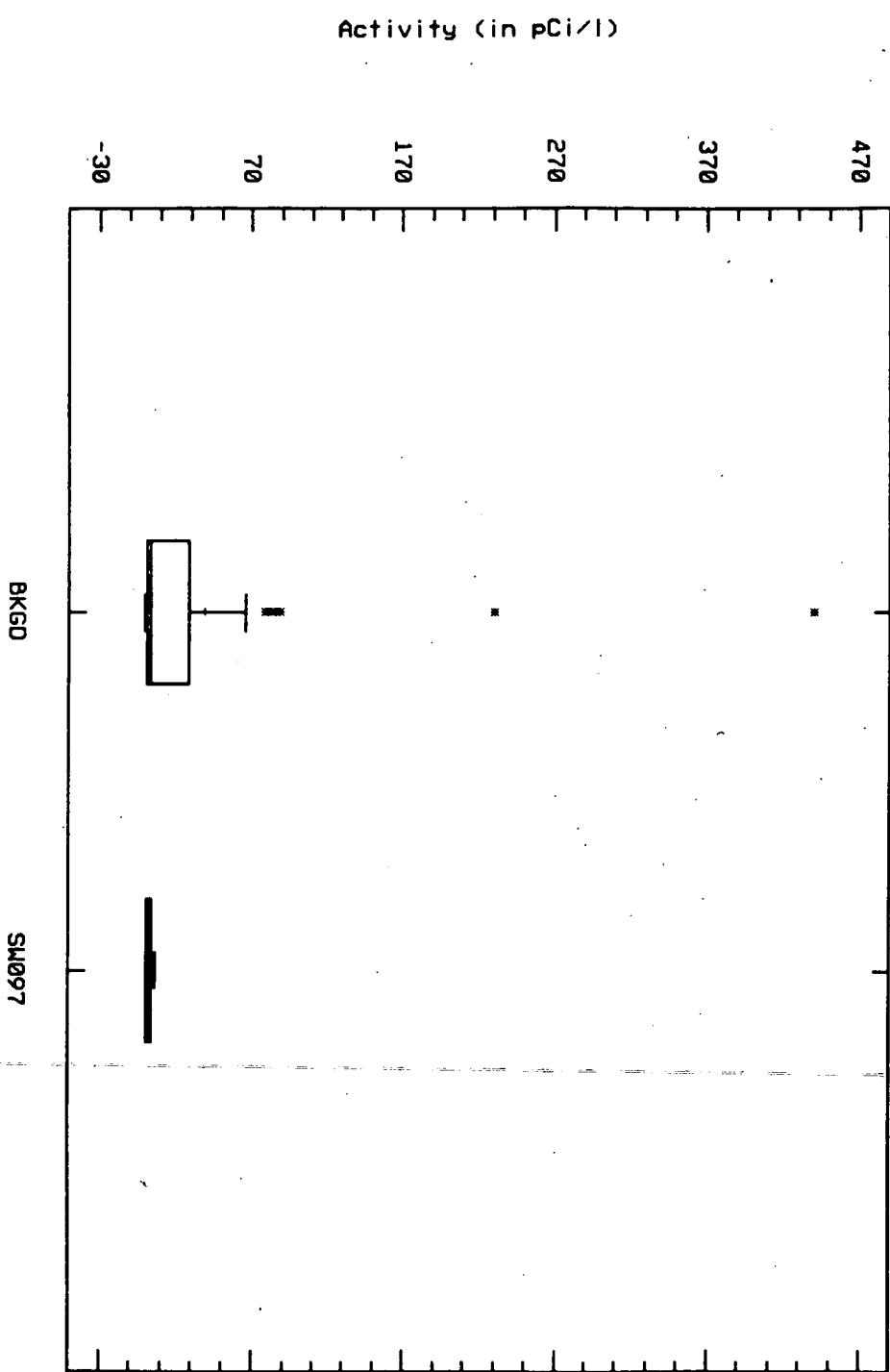
Gross Beta (Total): Seep Water
Background vs. 0U7



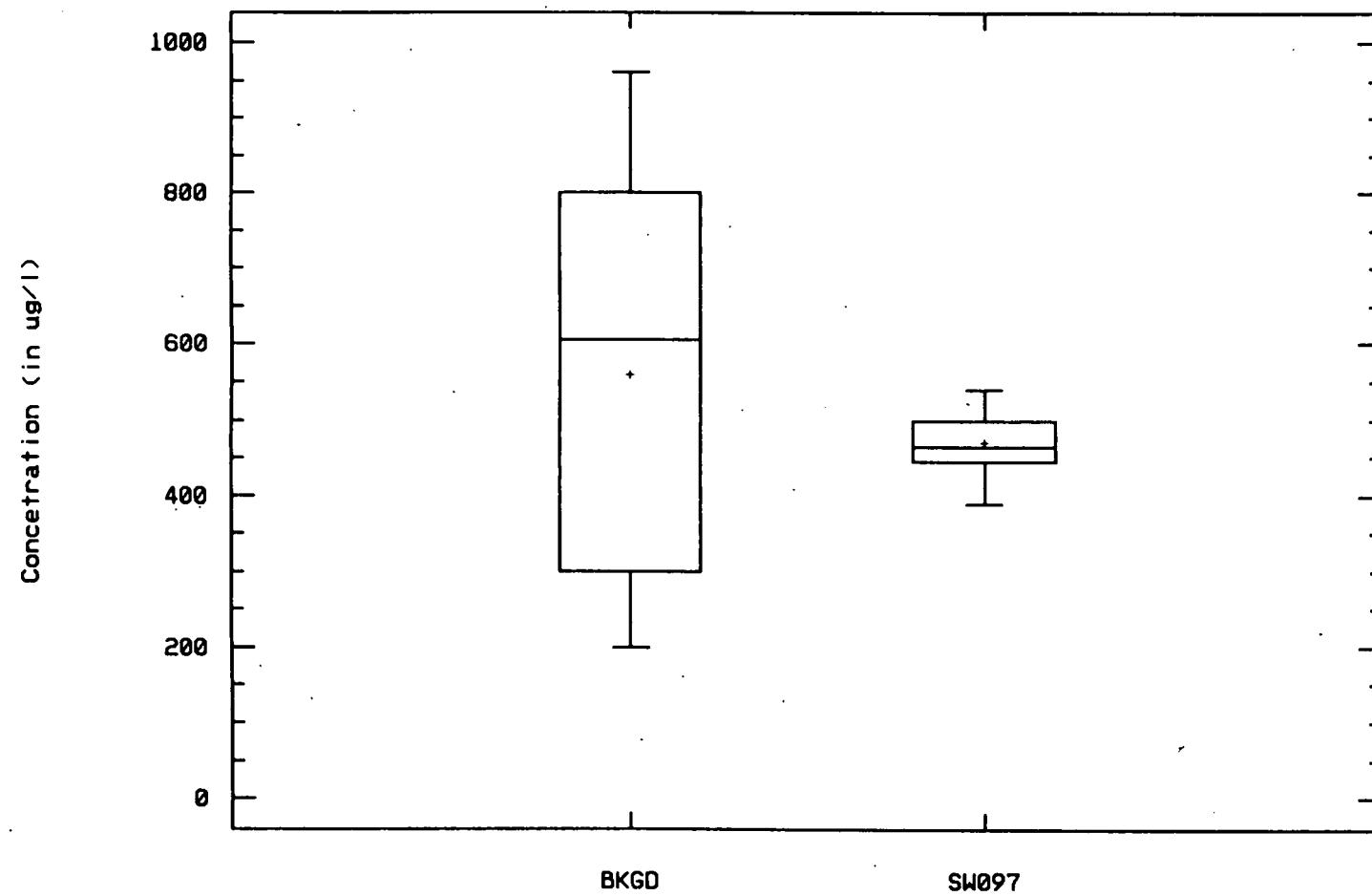
Gross Alpha (Total): Seep Water
Background vs. OUT



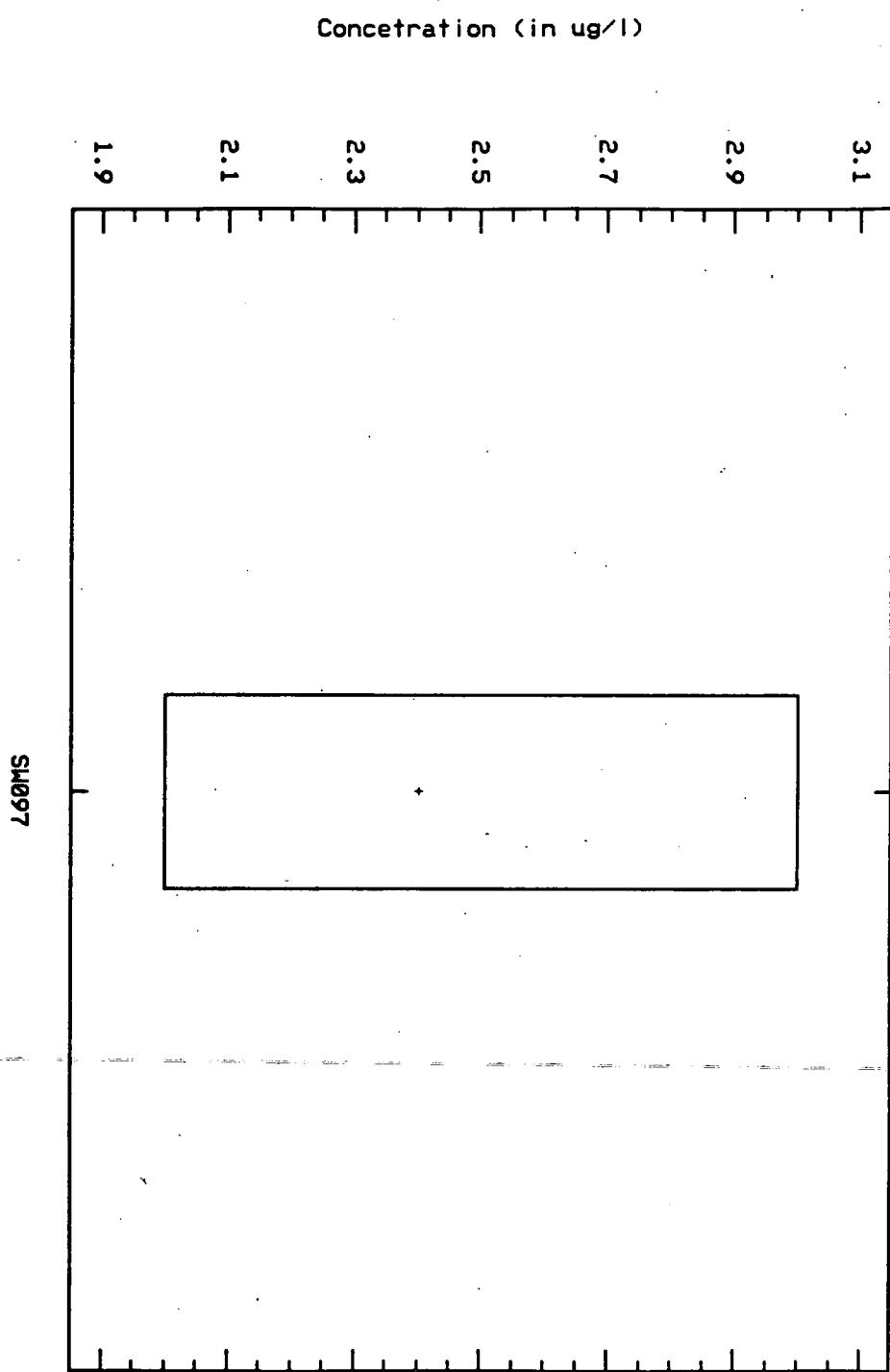
Gross Alpha (Total): Seep Water
Background vs. OUT



Fluoride (Total): Seep Water
Background vs. OU7



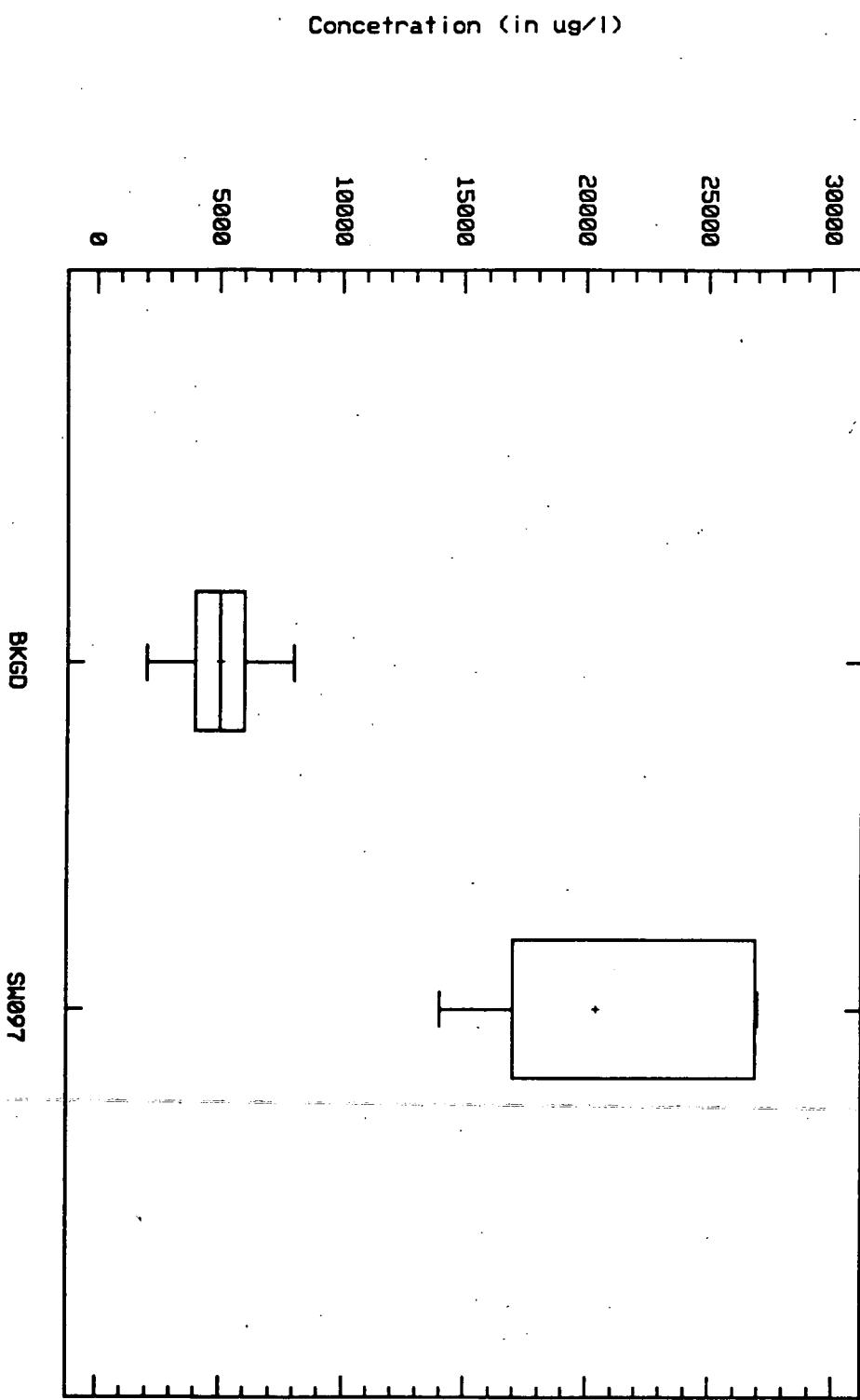
Fluorene (Total): Seep Water
Background vs. OUT



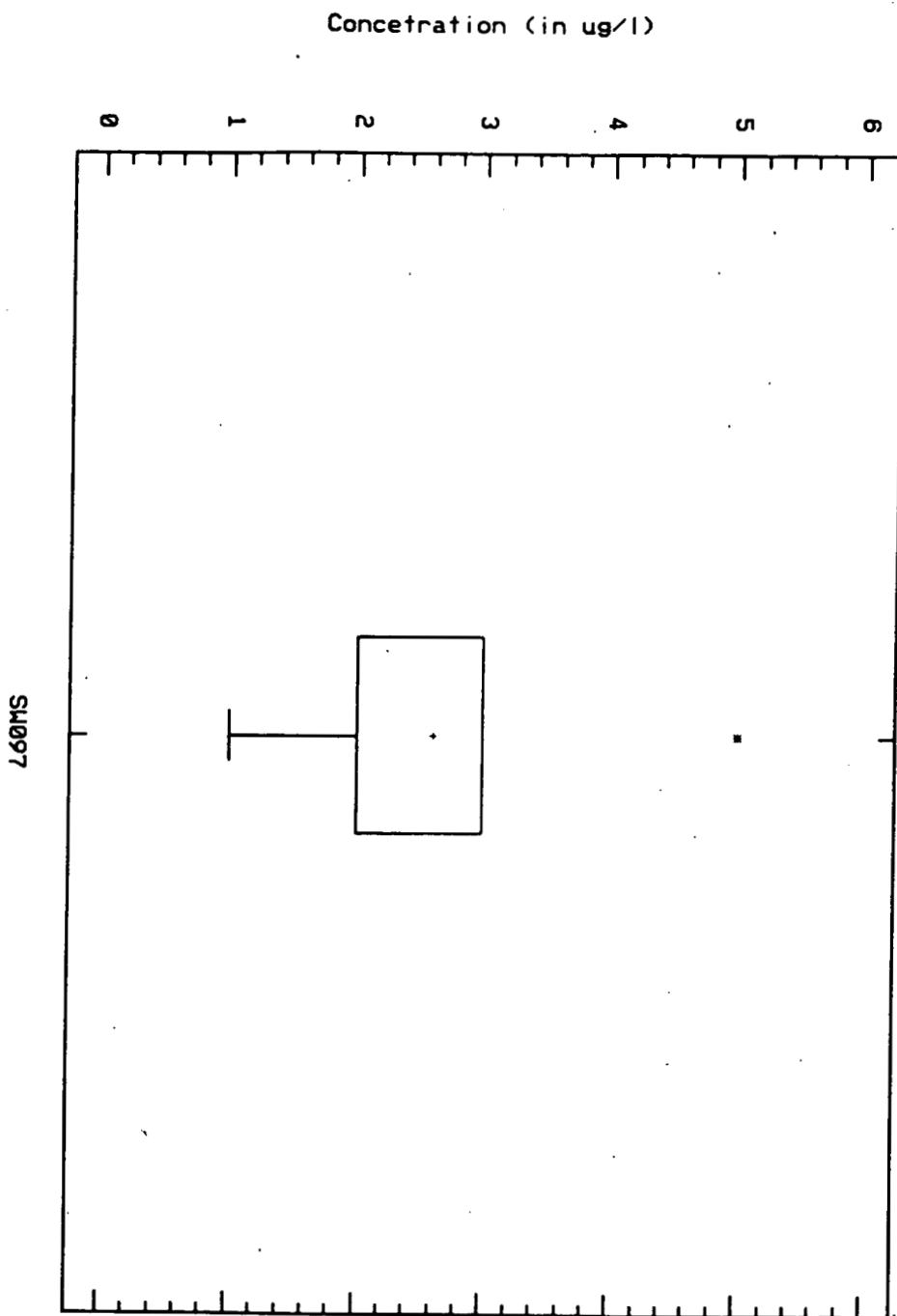
Ethylbenzene (Total): Seep Water
Background vs. 0U7



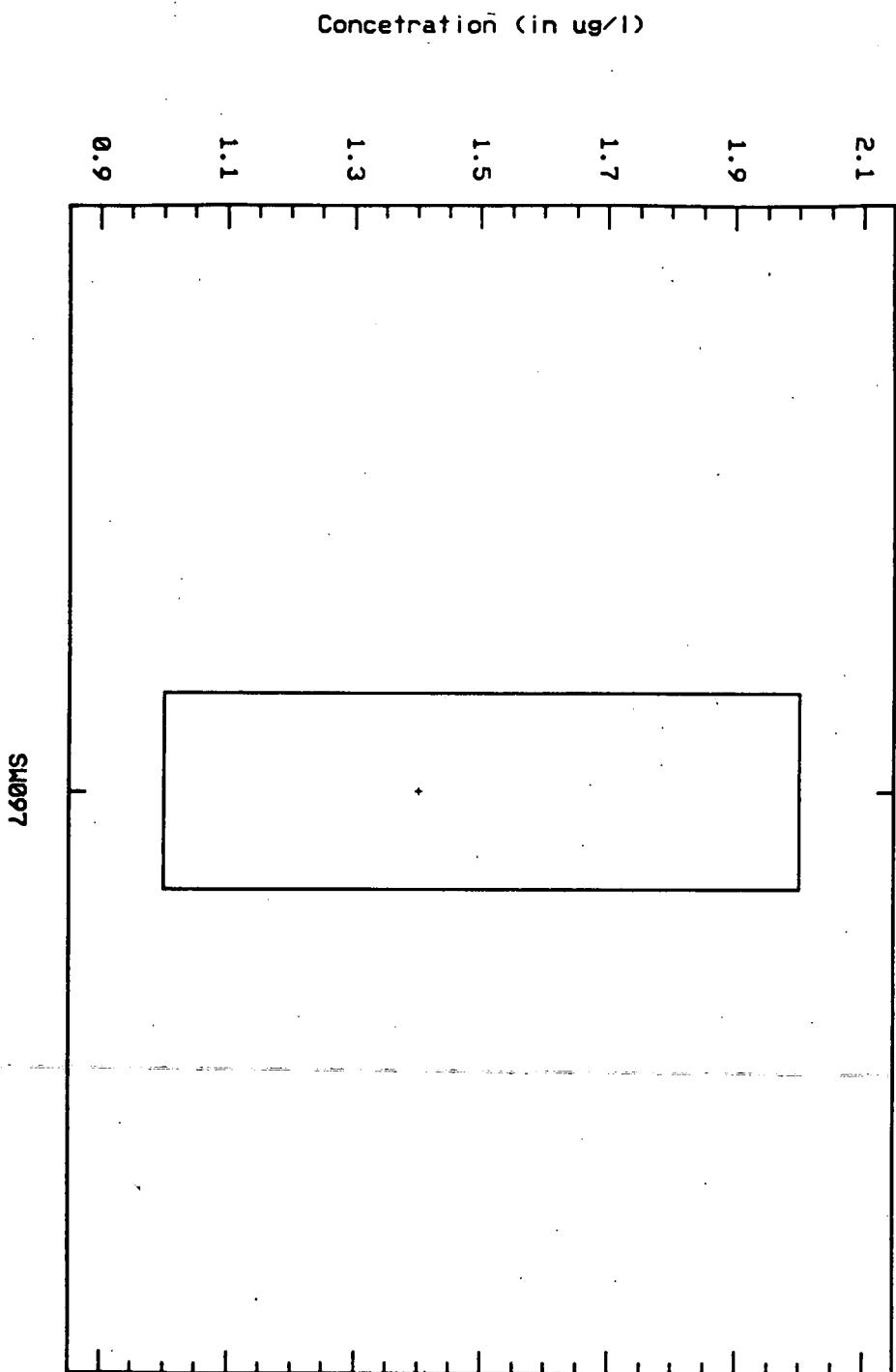
Dis. Organic Carbon (Total): Seep Water
Background vs. OUT



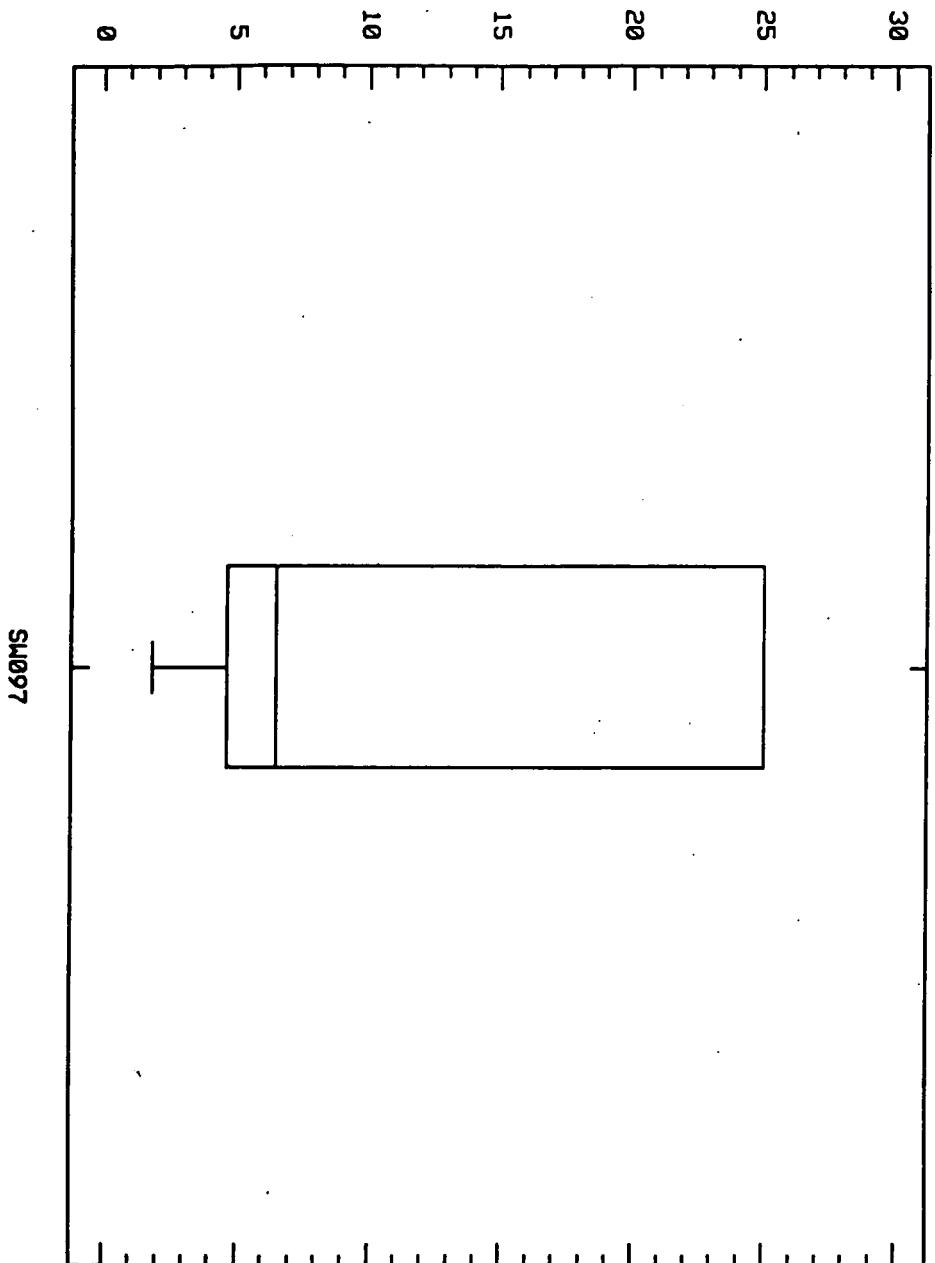
Diethylphthalate (Total): Seep Water
Background vs. 0U7



Dibenzofuran (Total): Seep Water
Background vs. OUT



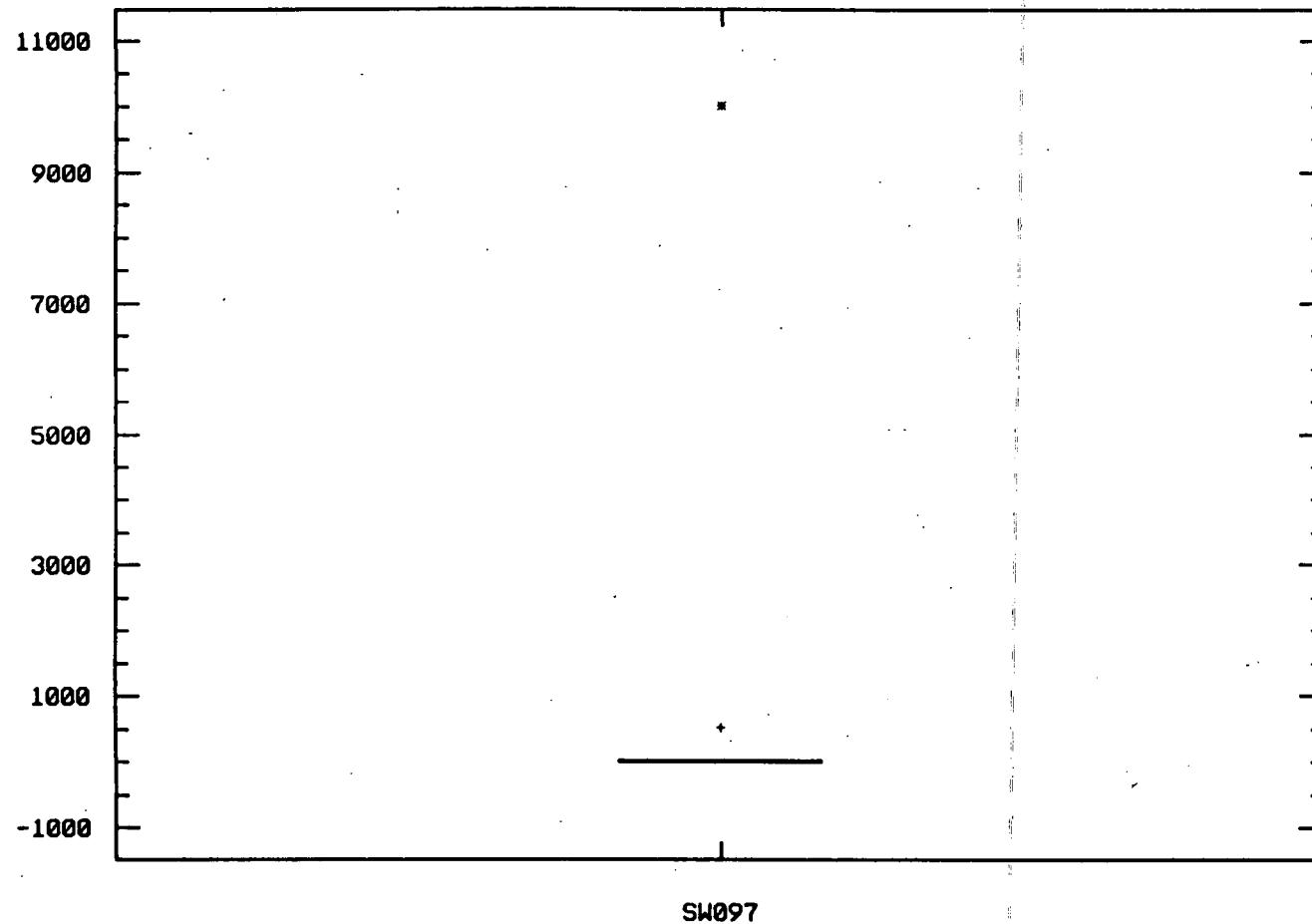
Concentration (in ug/l)



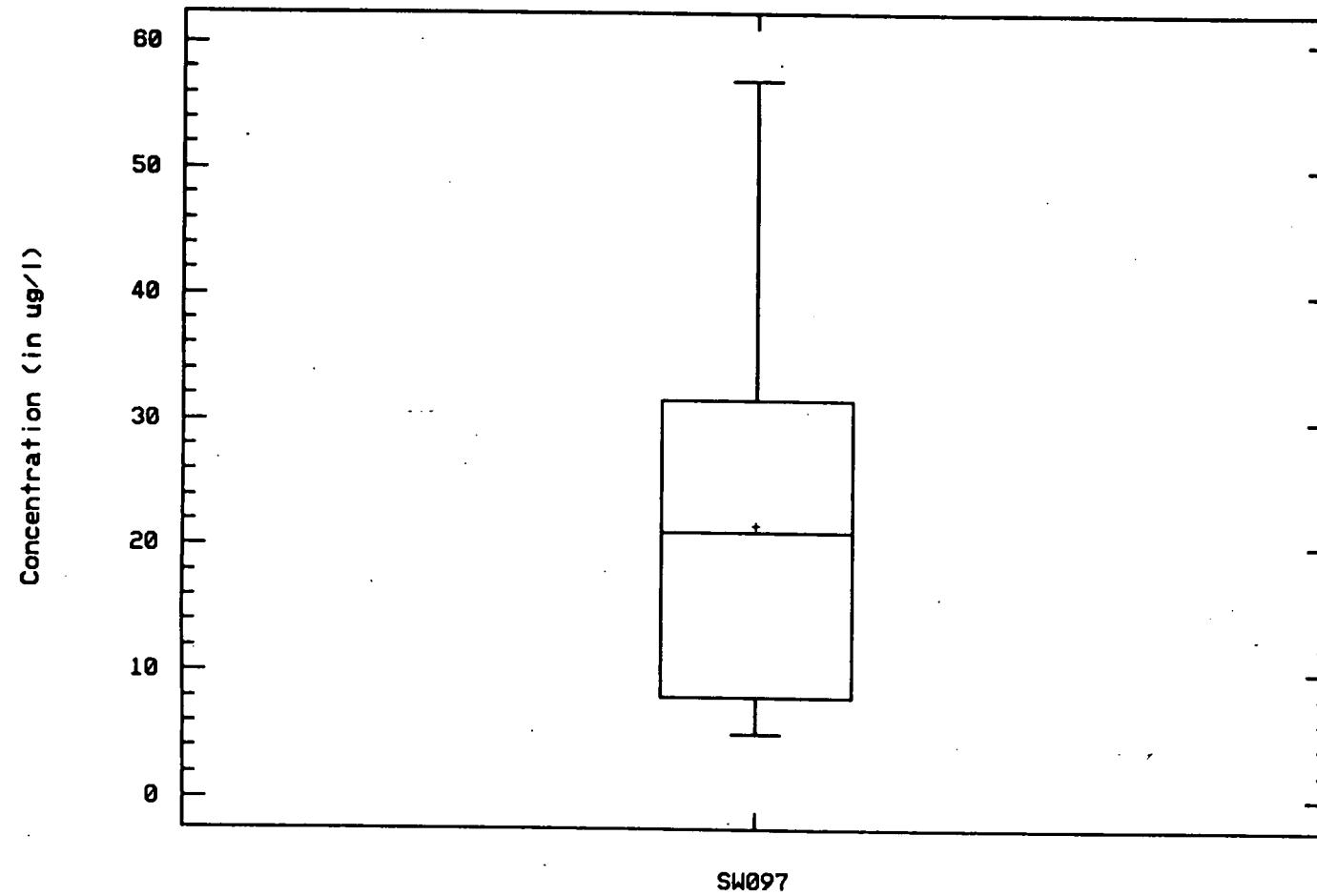
Cobalt (Total): Seep Water
Background vs. OUT

Concentration (in ug/l)

Cobalt (Total): Seep Water
Background vs. OU7

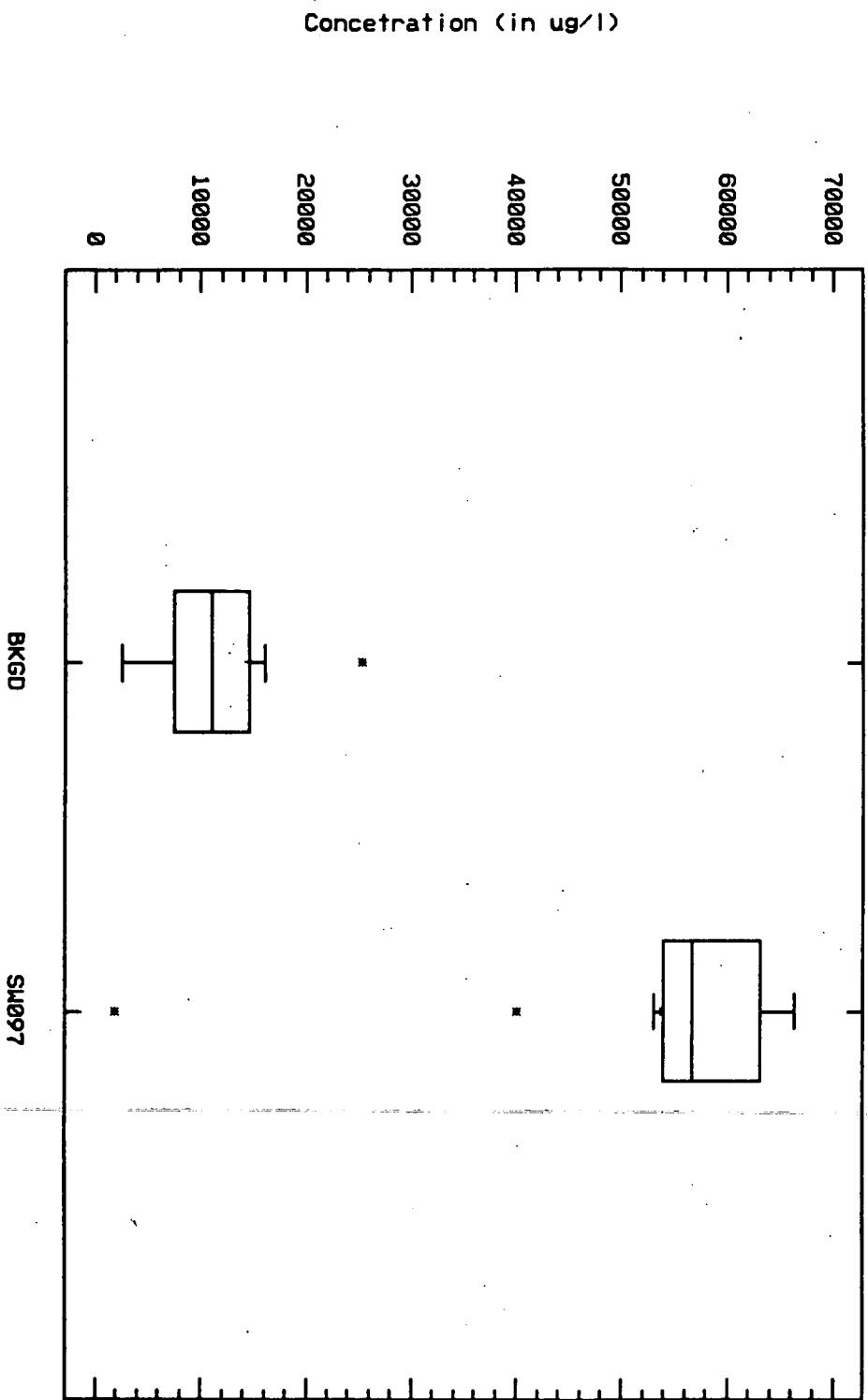


Chloroethane (Total): Seep Water
Background vs. OU7

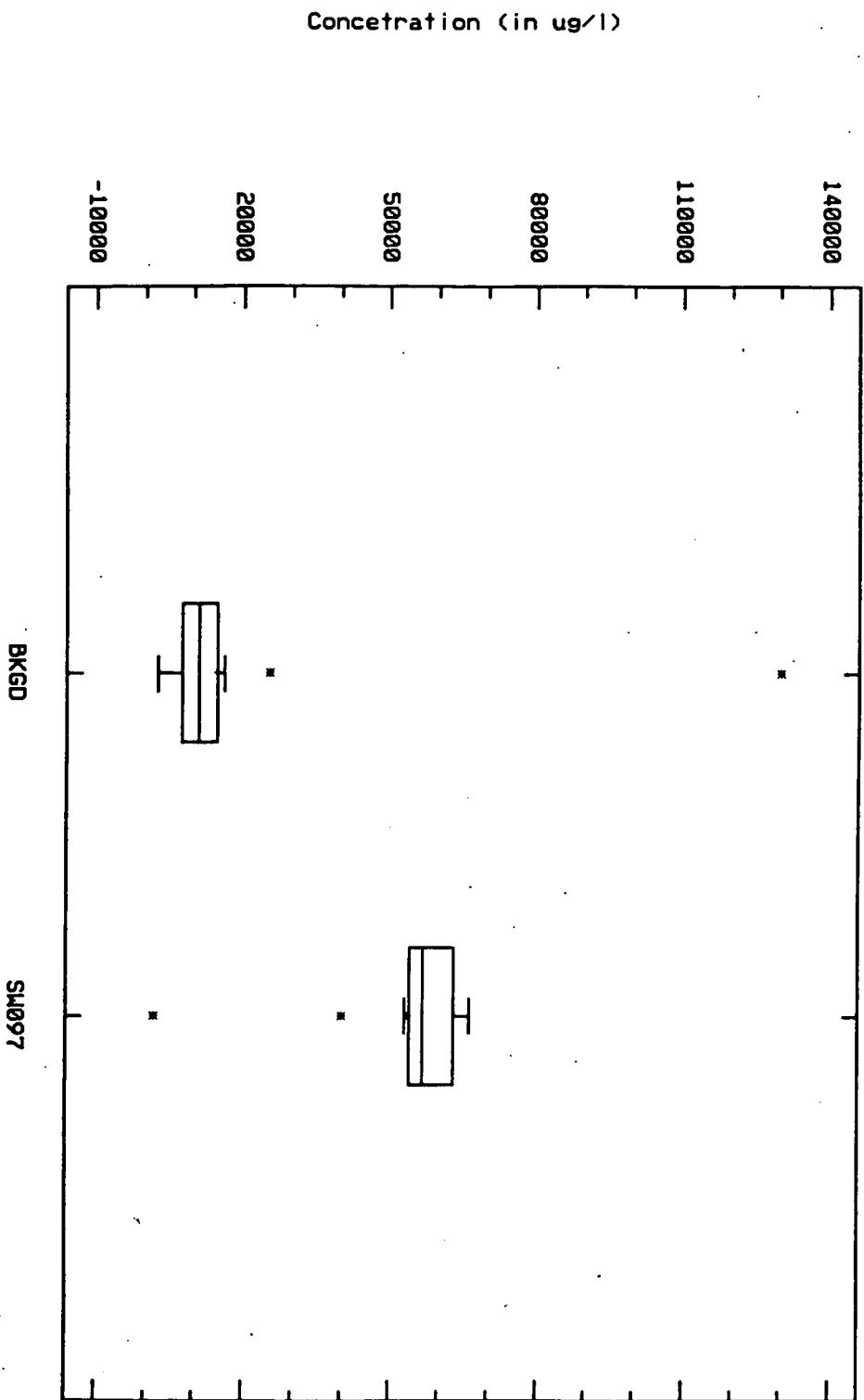


Chloride (Total): Seep Water

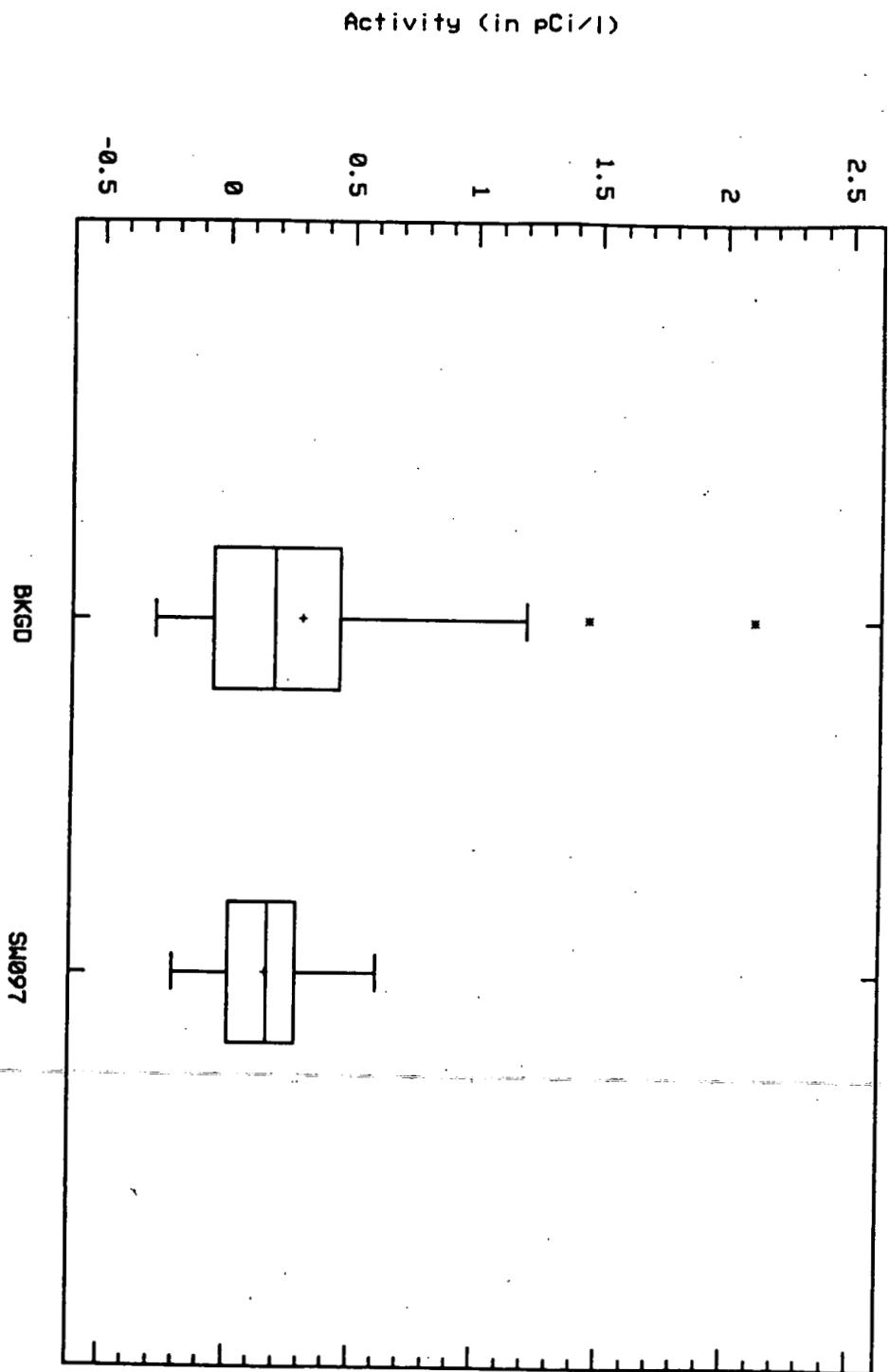
Background vs. 0U7



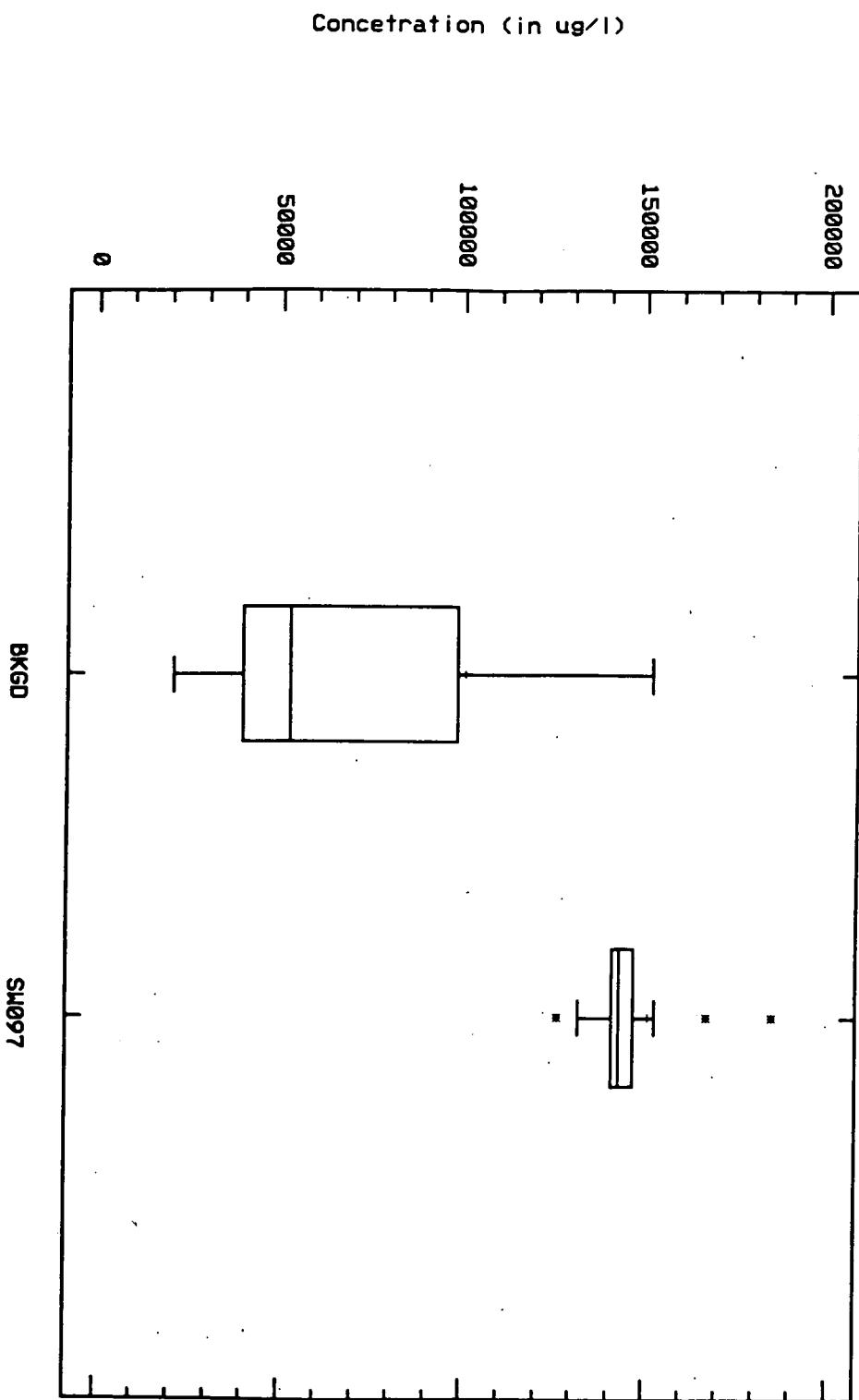
Chloride (Total): Seep Water
Background vs. OUT



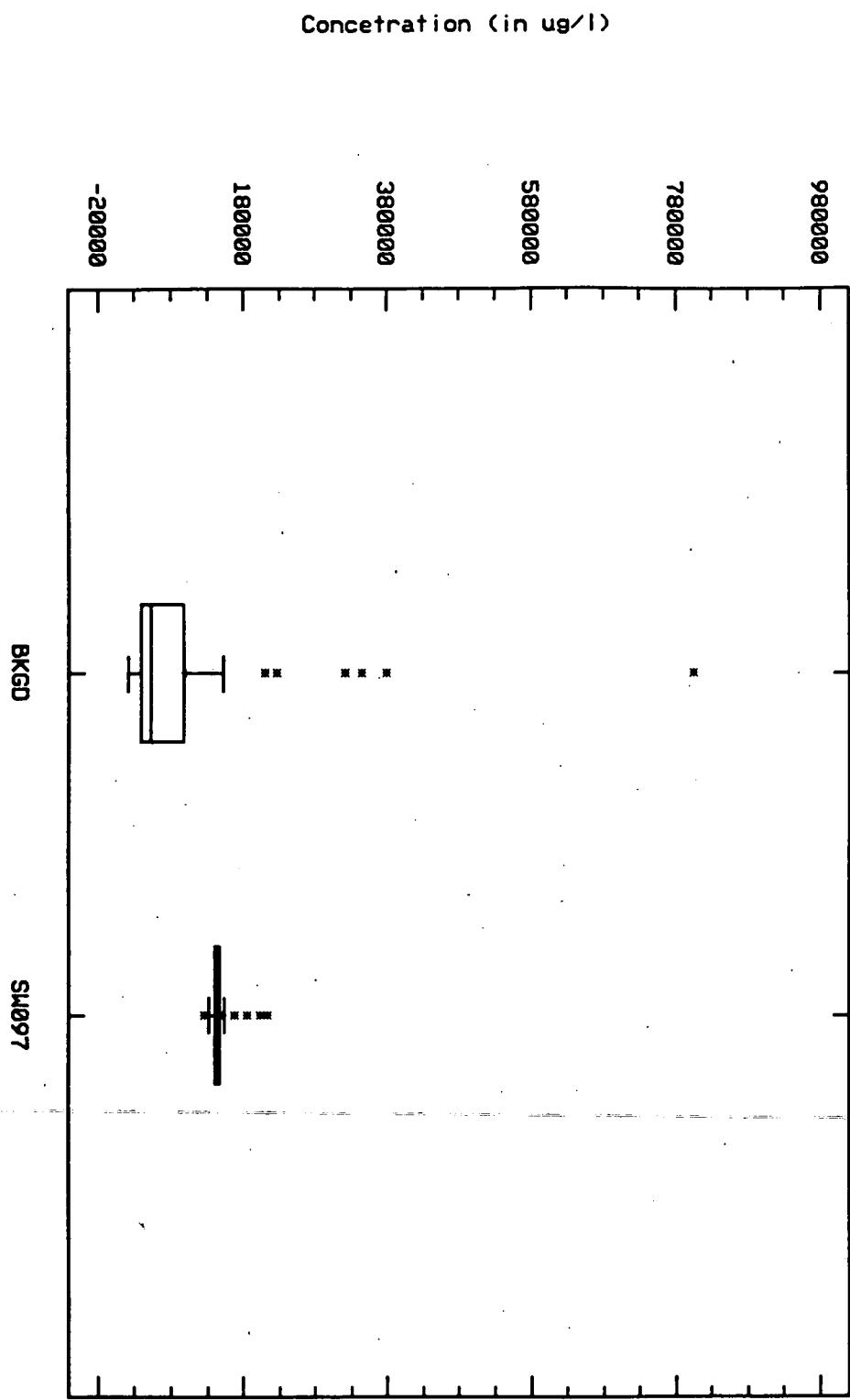
Cesium-137 (Total): Seep Water
Background vs. OUT



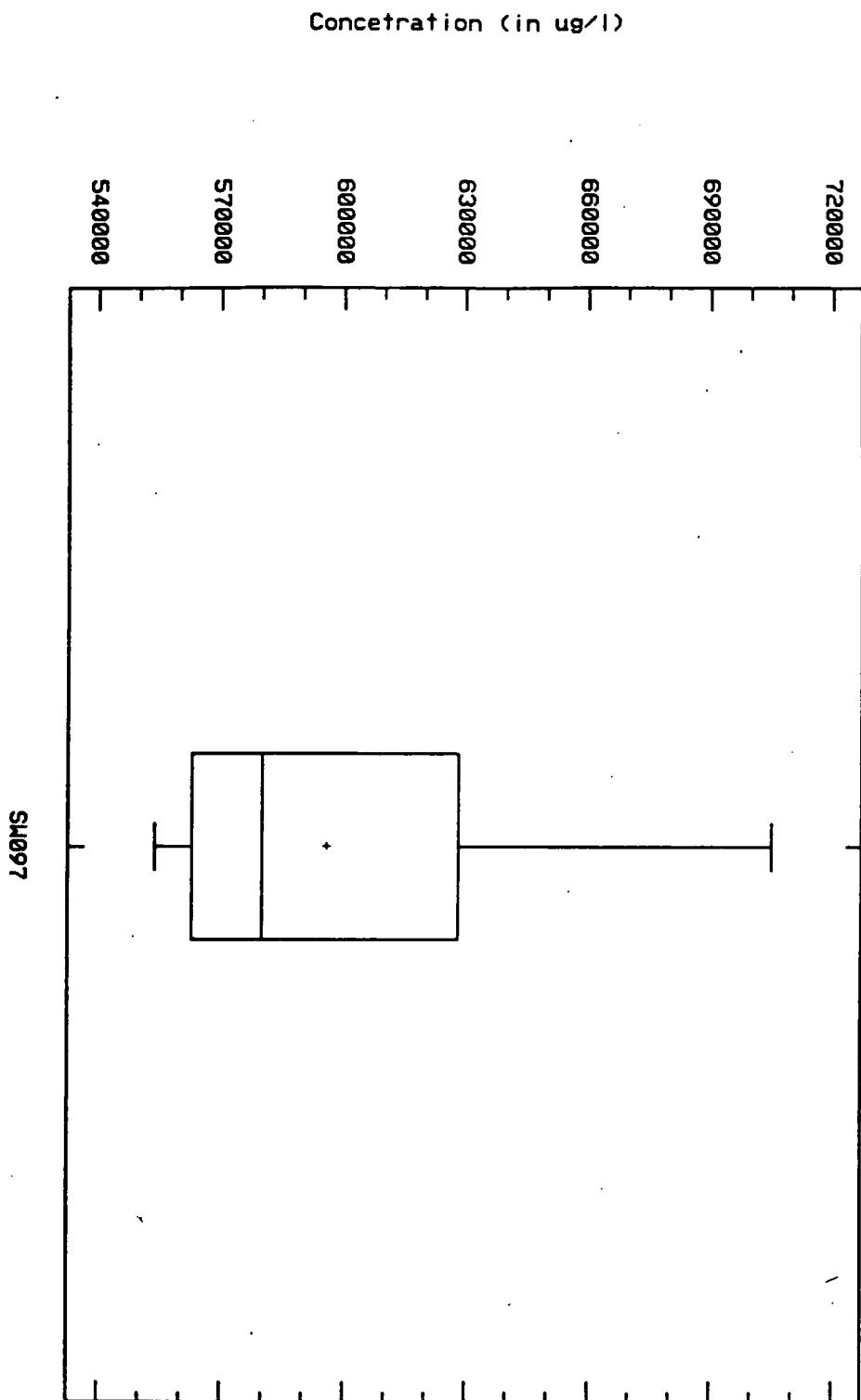
Calcium (Total): Seep Water
Background vs. OUT



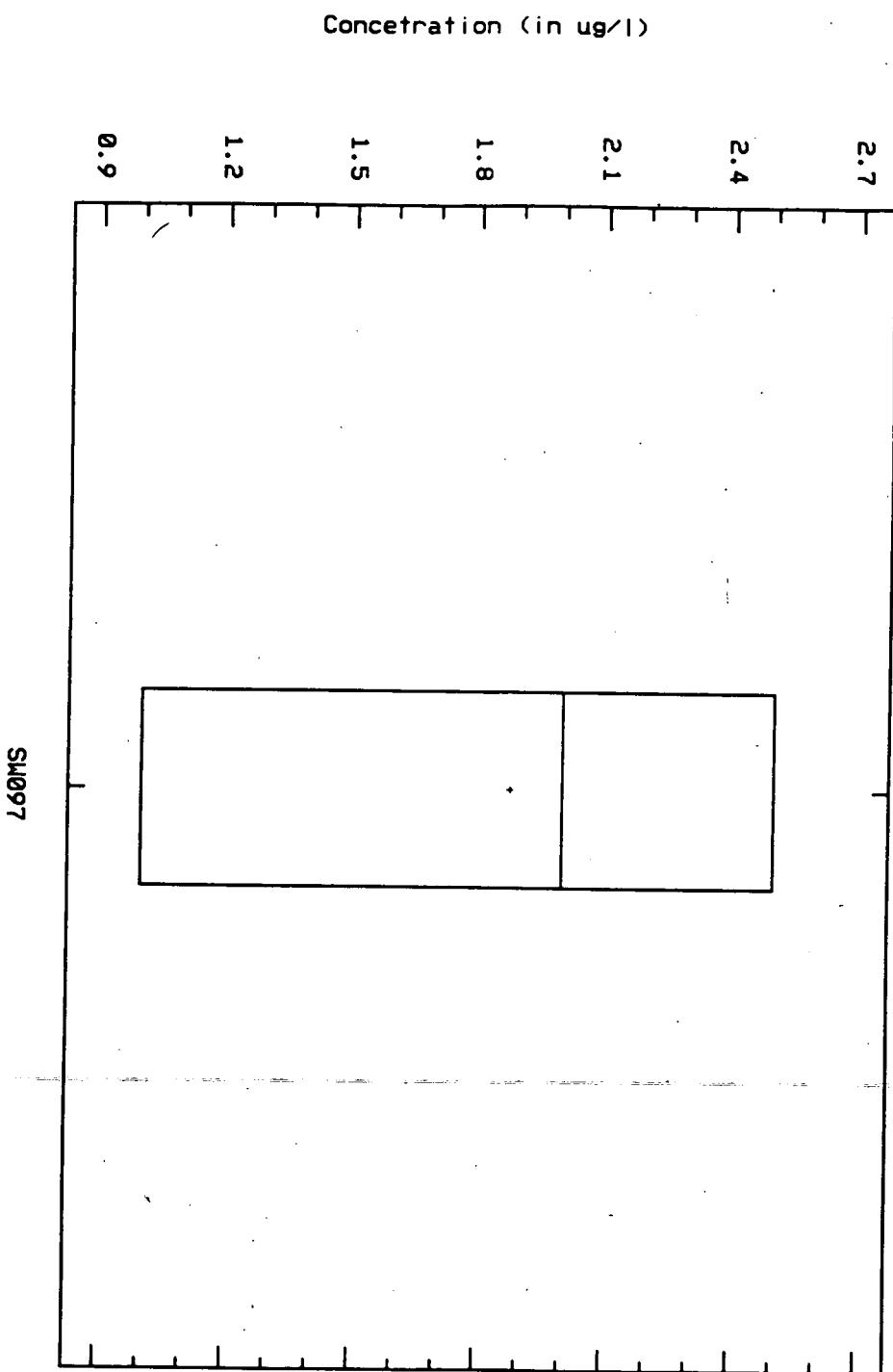
Calcium (Total): Seep Water
Background vs. 0U7



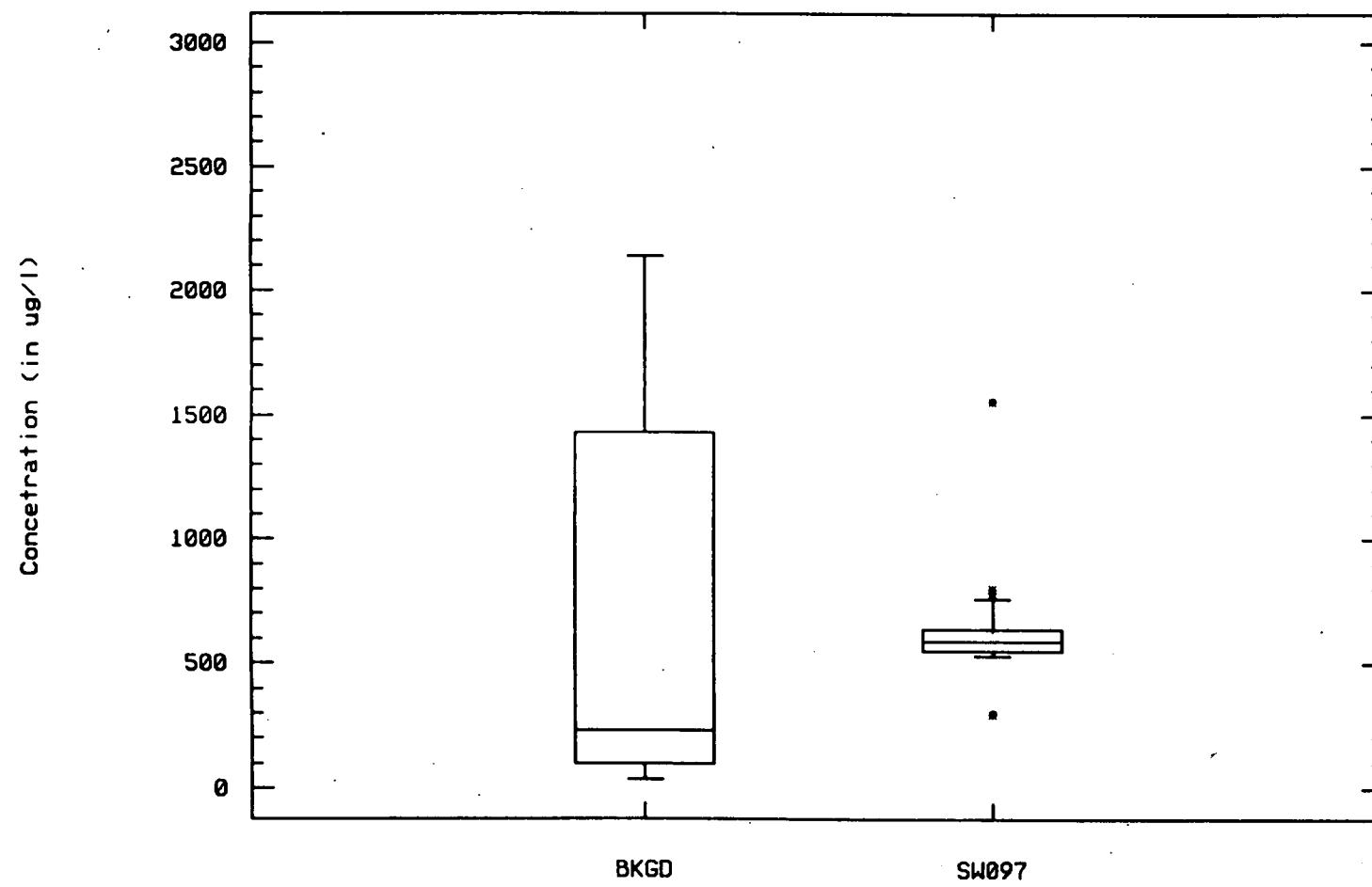
Bicarbonate as CaCO₃ (Total): Seep Water
Background vs. OUT



Benzene (Total): Seep Water
Background vs. 0U7

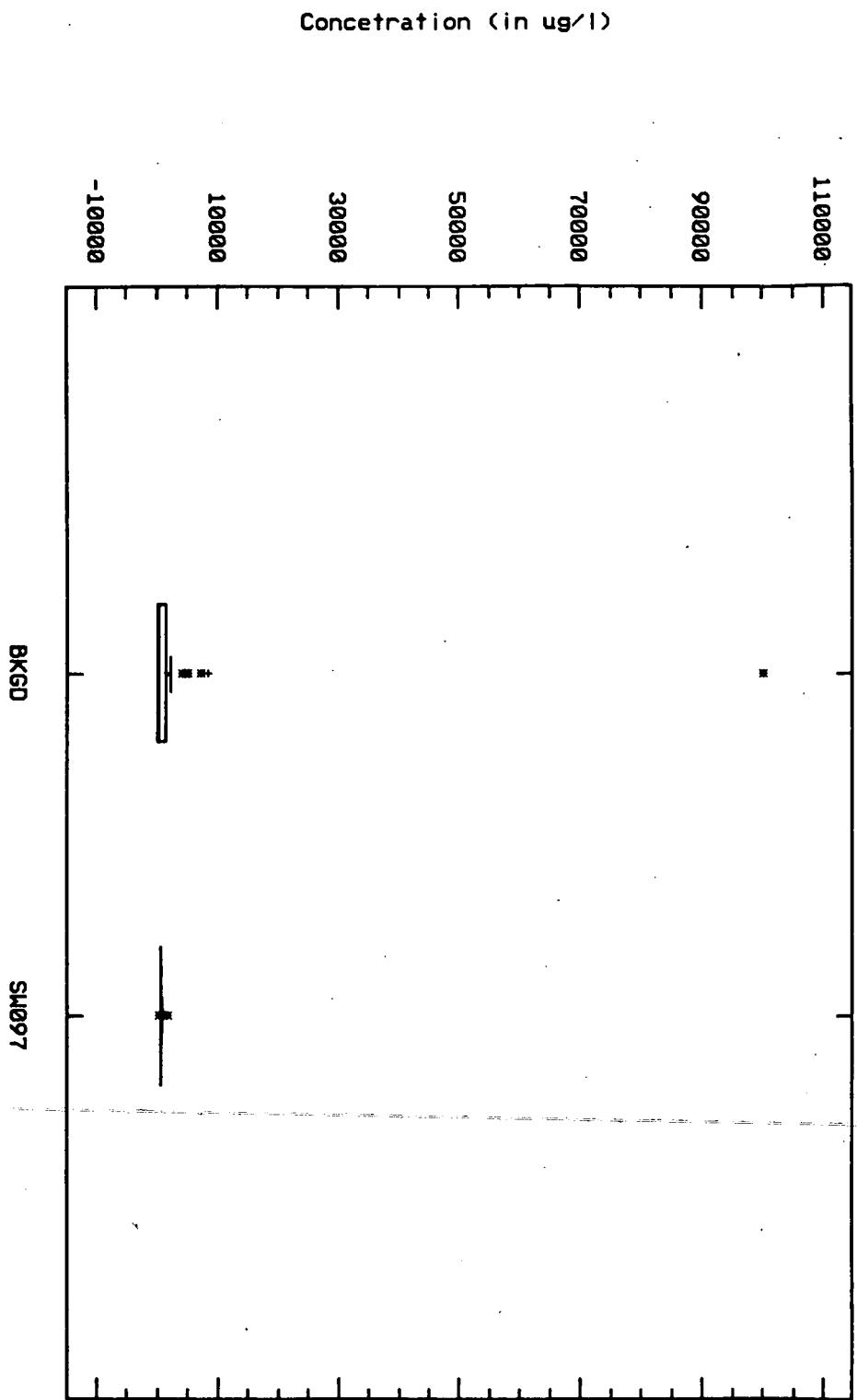


Barium (Total): Seep Water
Background vs. OU7

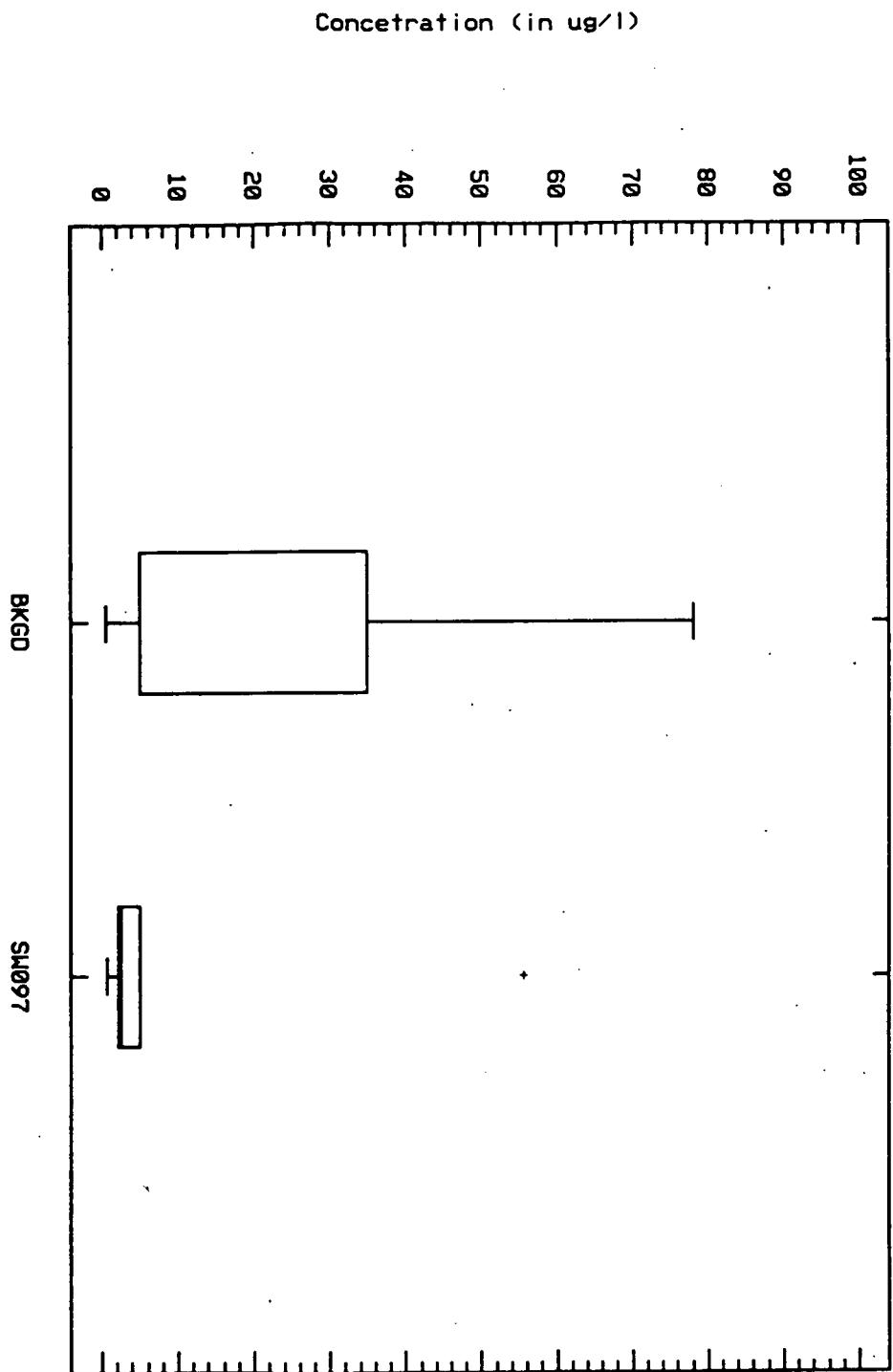


Barium (Total): Seep Water

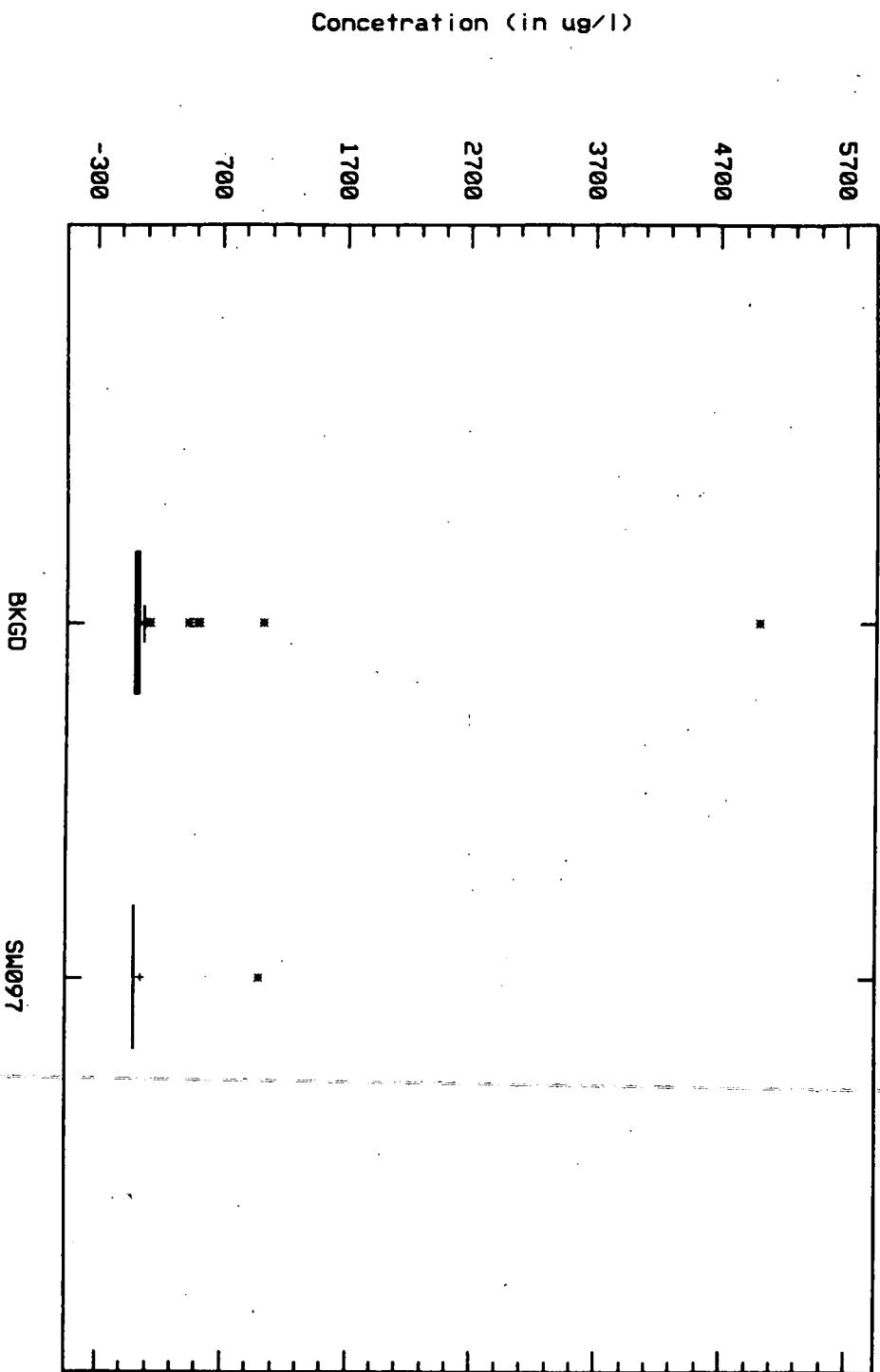
Background vs. 0U7



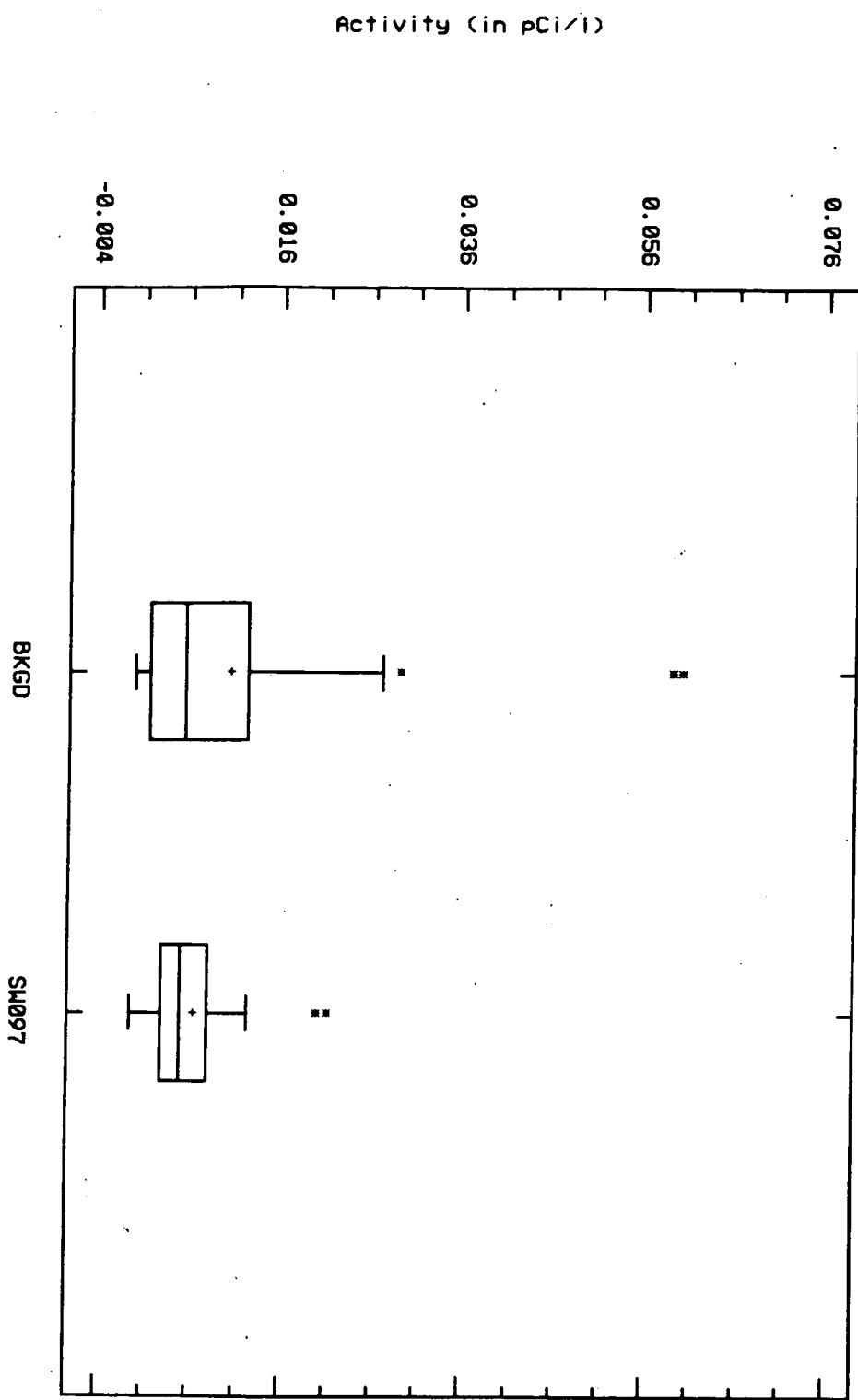
Arsenic (Total): Seep Water
Background vs. 0U7



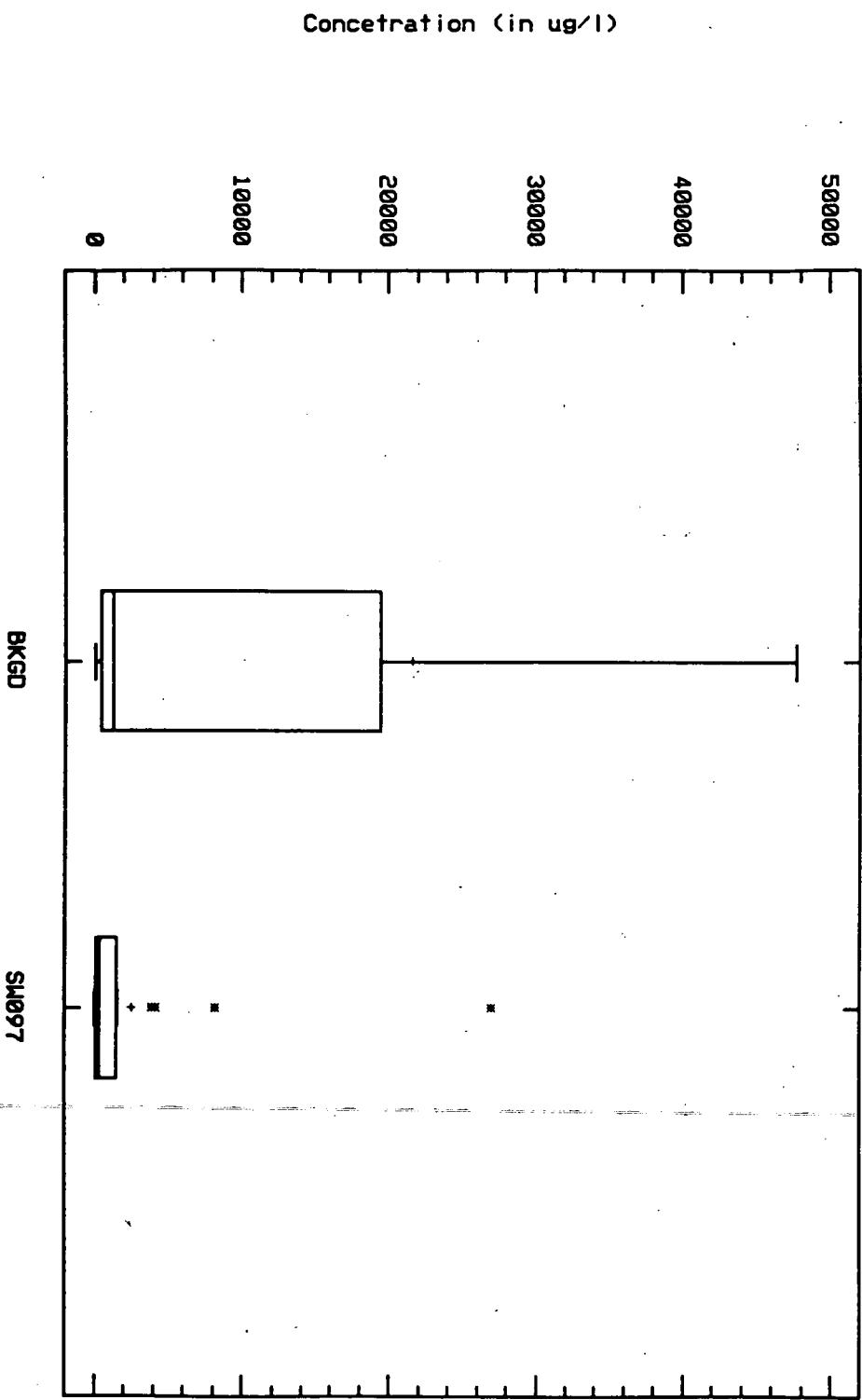
Arsenic (Total): Seep Water
Background vs. 0U7



Americium-241 (Total): Seep Water
Background vs. OUT

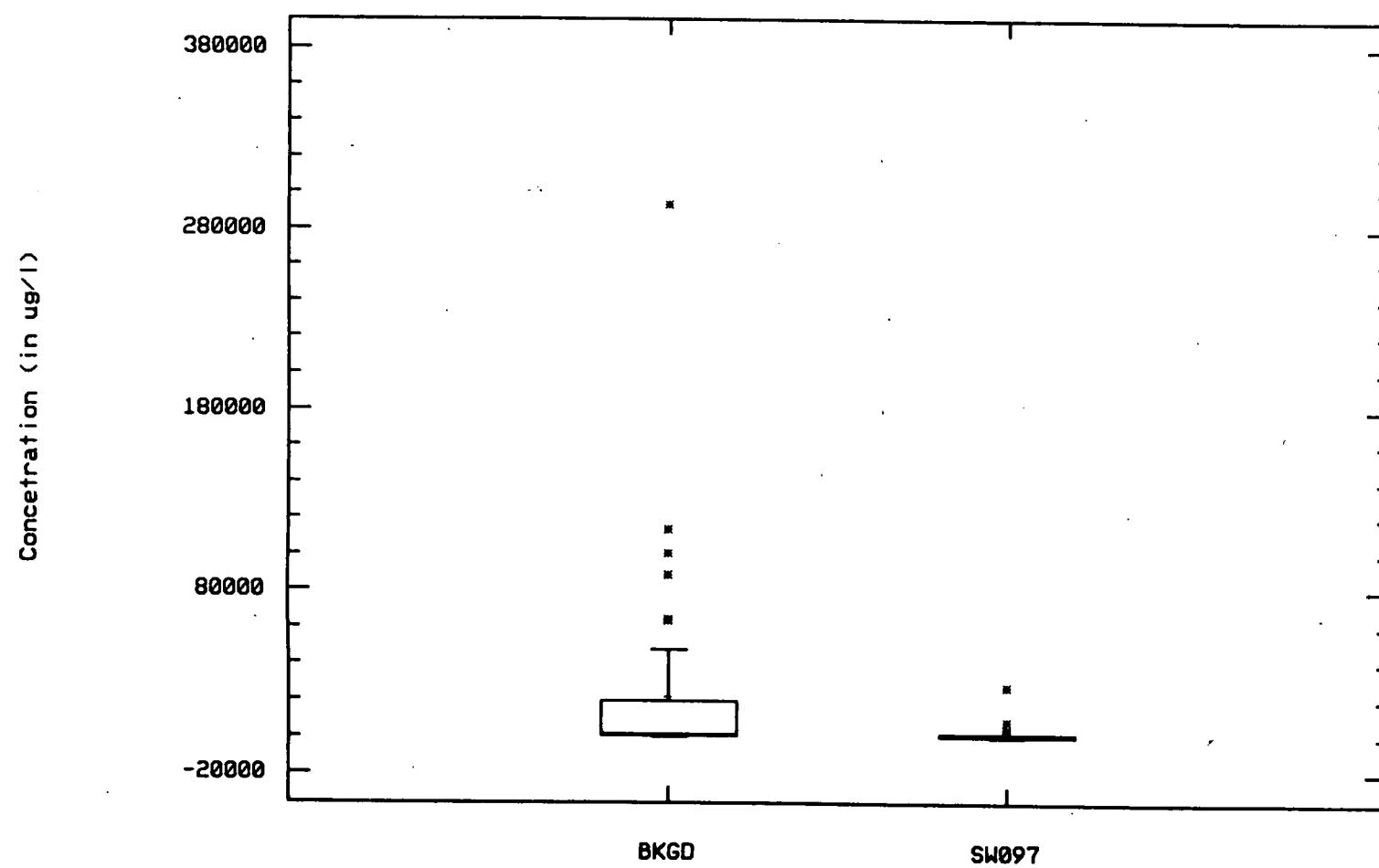


Aluminum (Total): Seep Water
Background vs. OUT

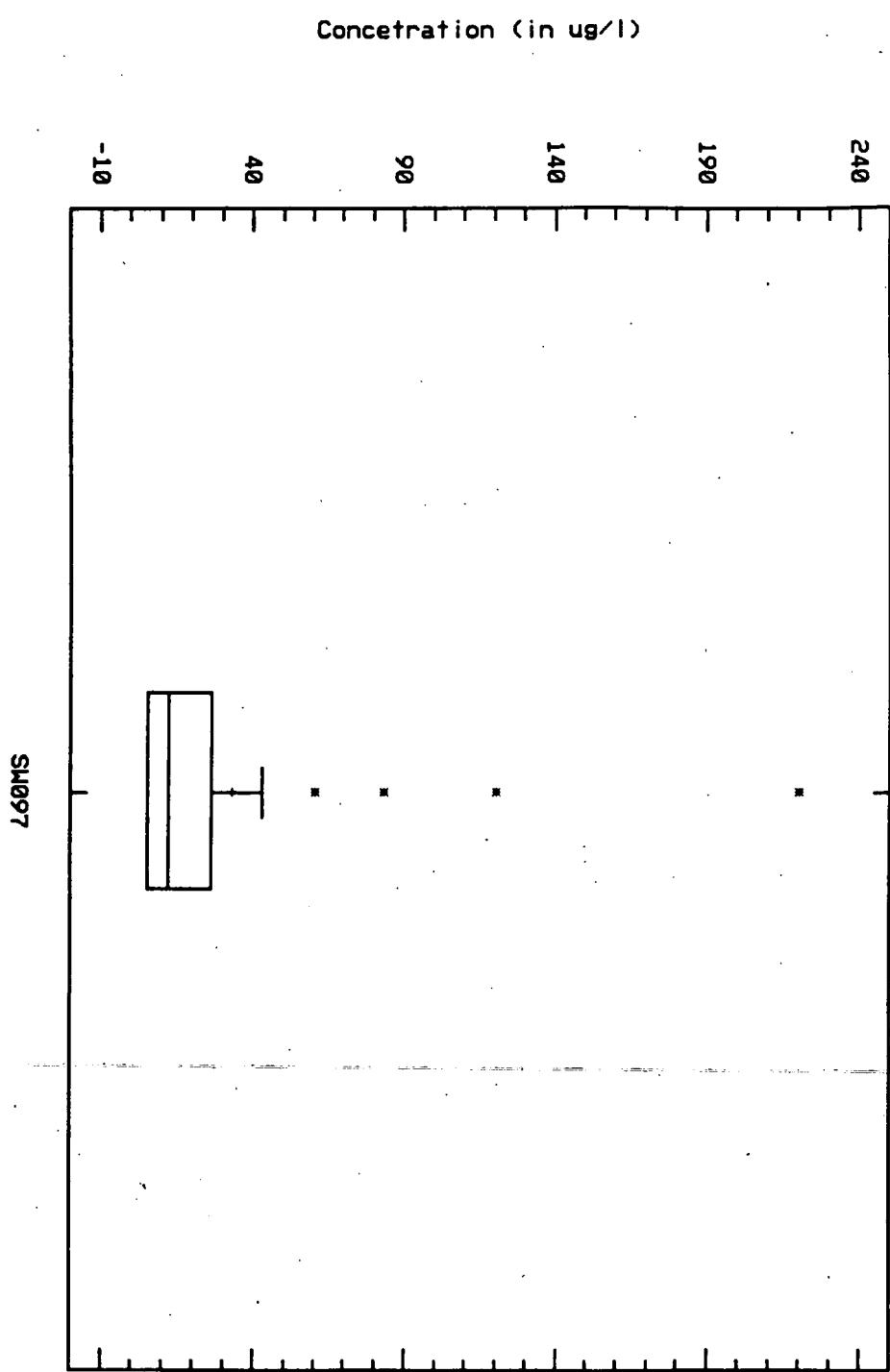


Aluminum (Total): Seep Water

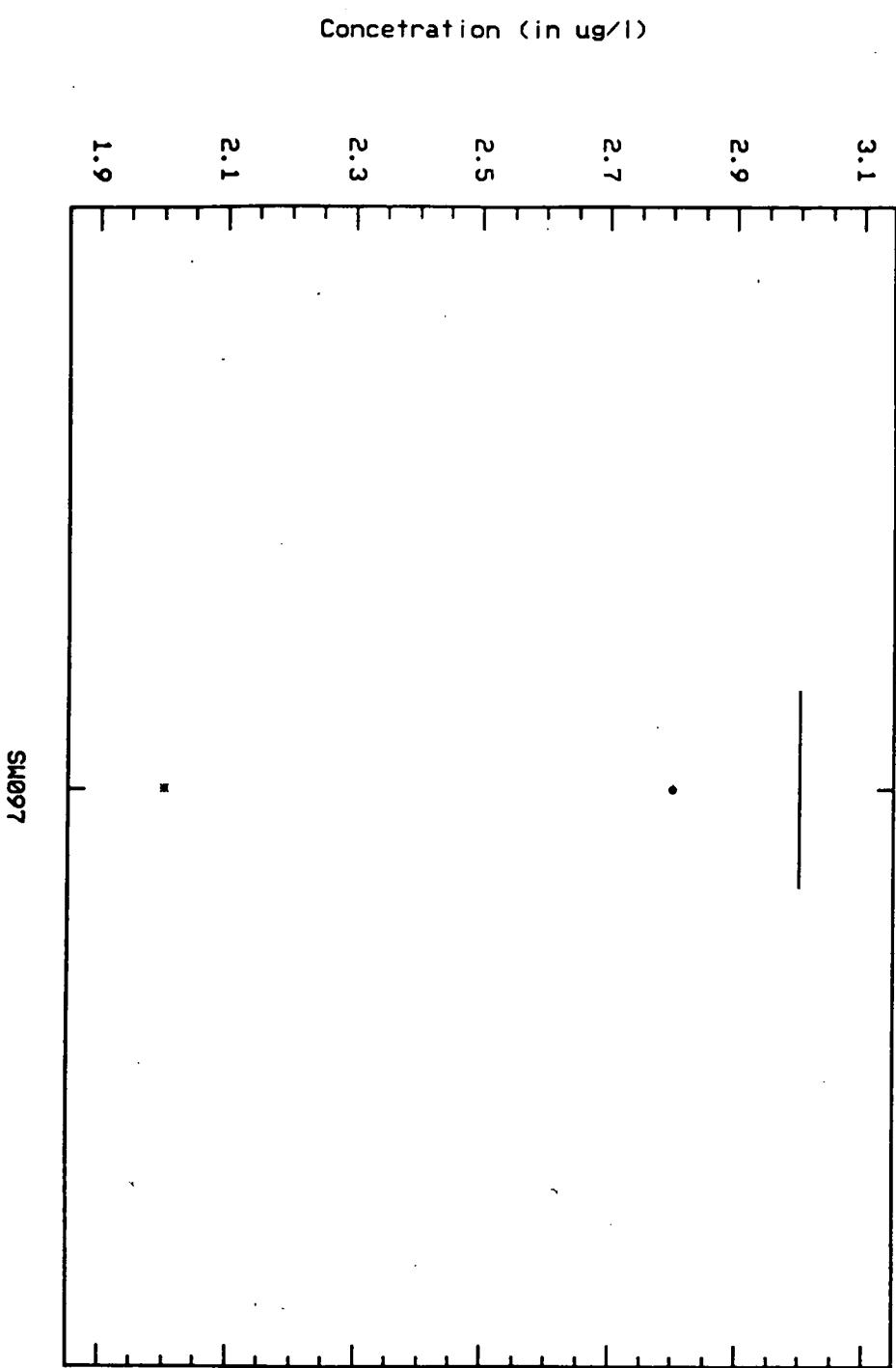
Background vs. OU7



Acetone (Total): Seep Water
Background vs. 0U7

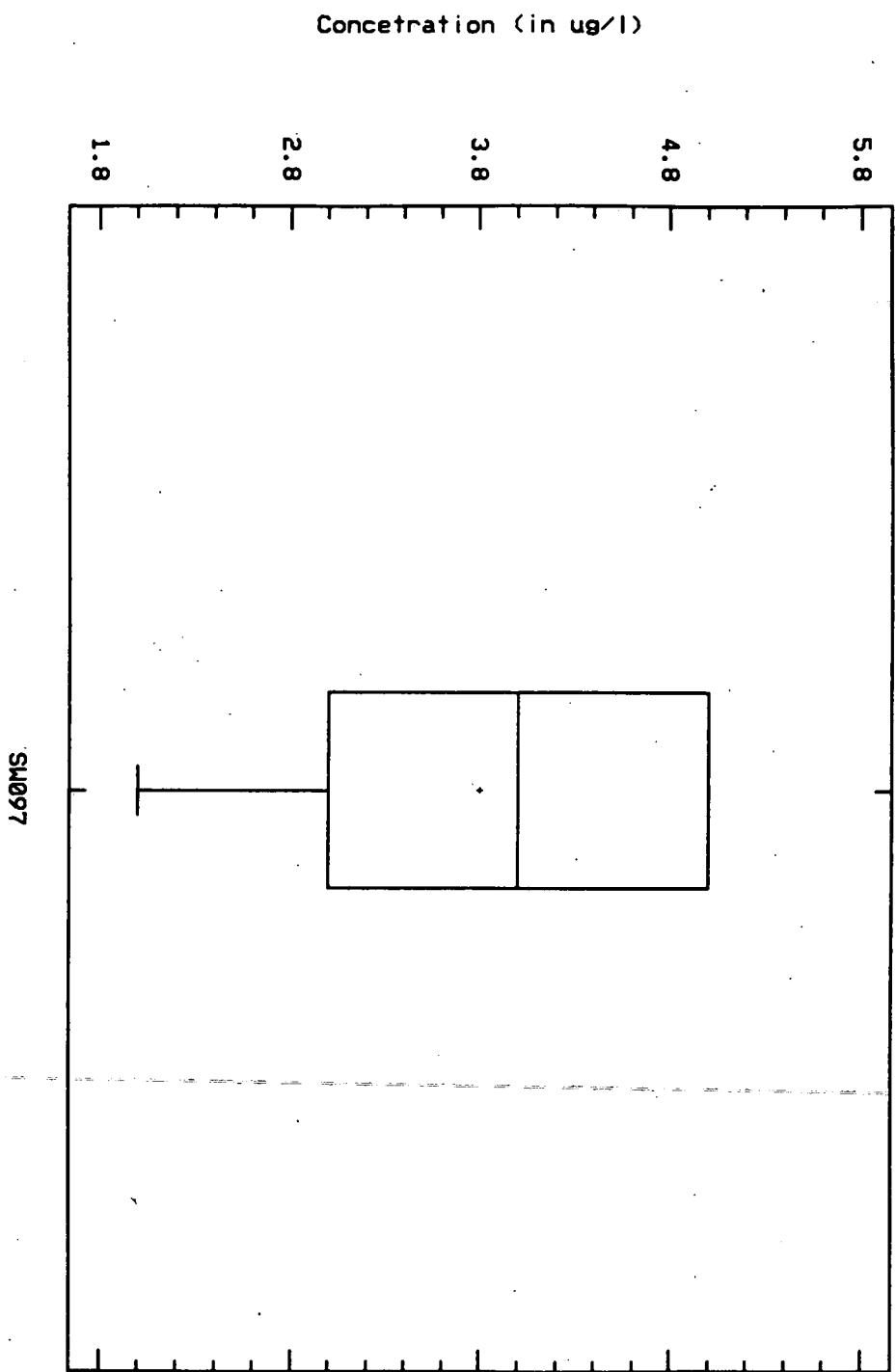


Acenaphthene (Total): Seep Water
Background vs. 0U7

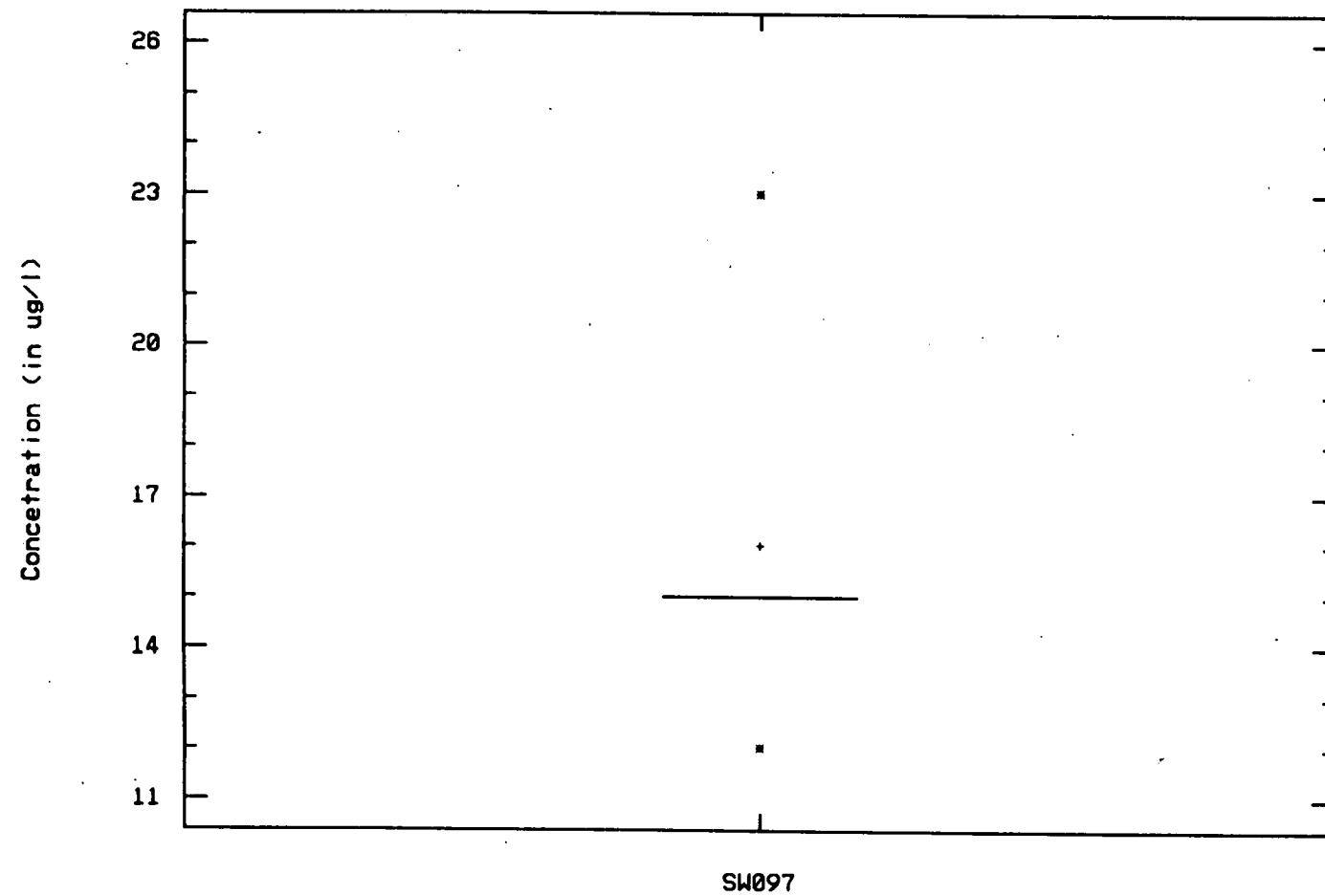


4-Methylphenol (Total): Seep Water

Background vs. OUT

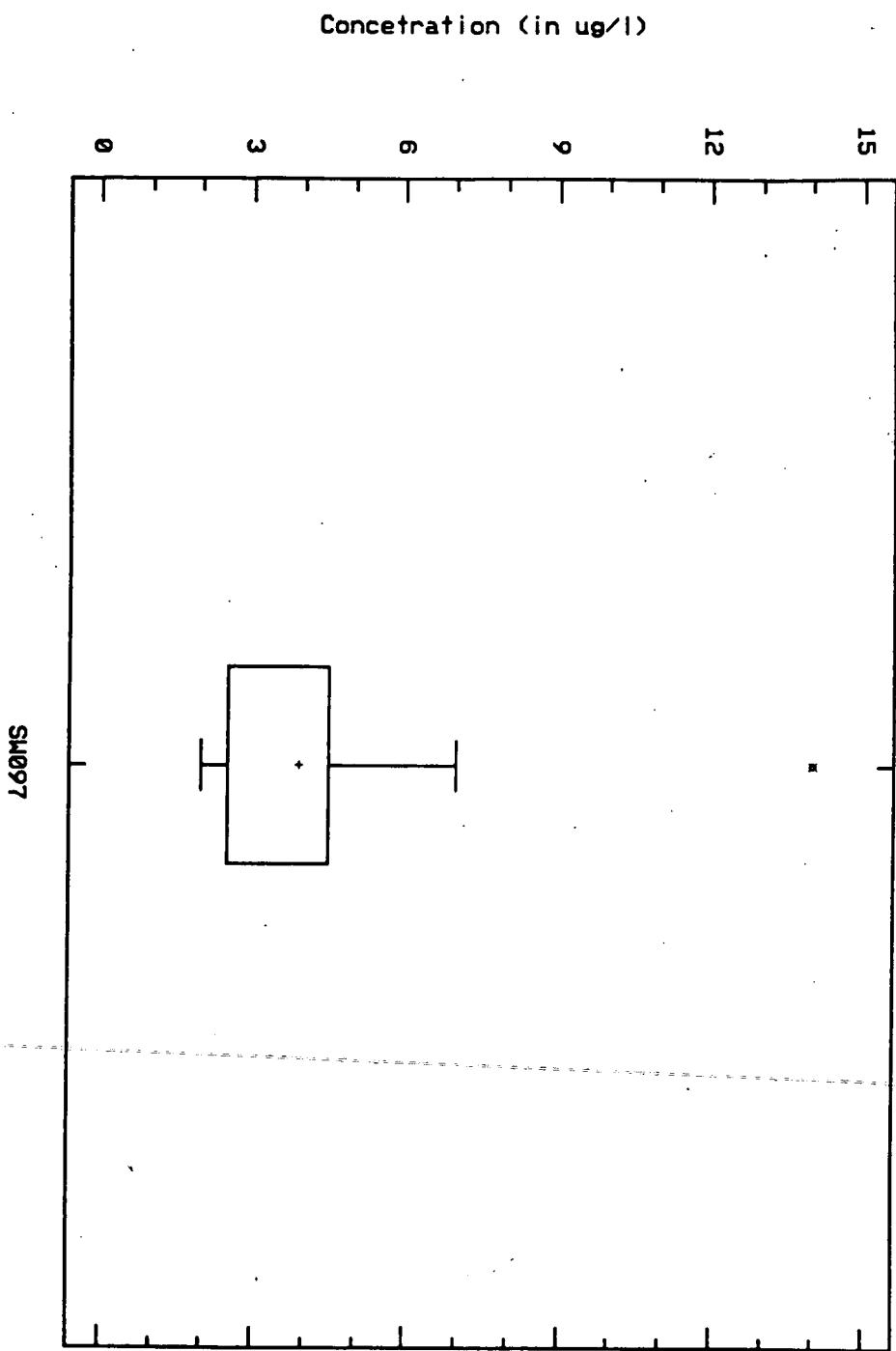


2-Methylnaphthalene (Total): Seep Water
Background vs. OU7

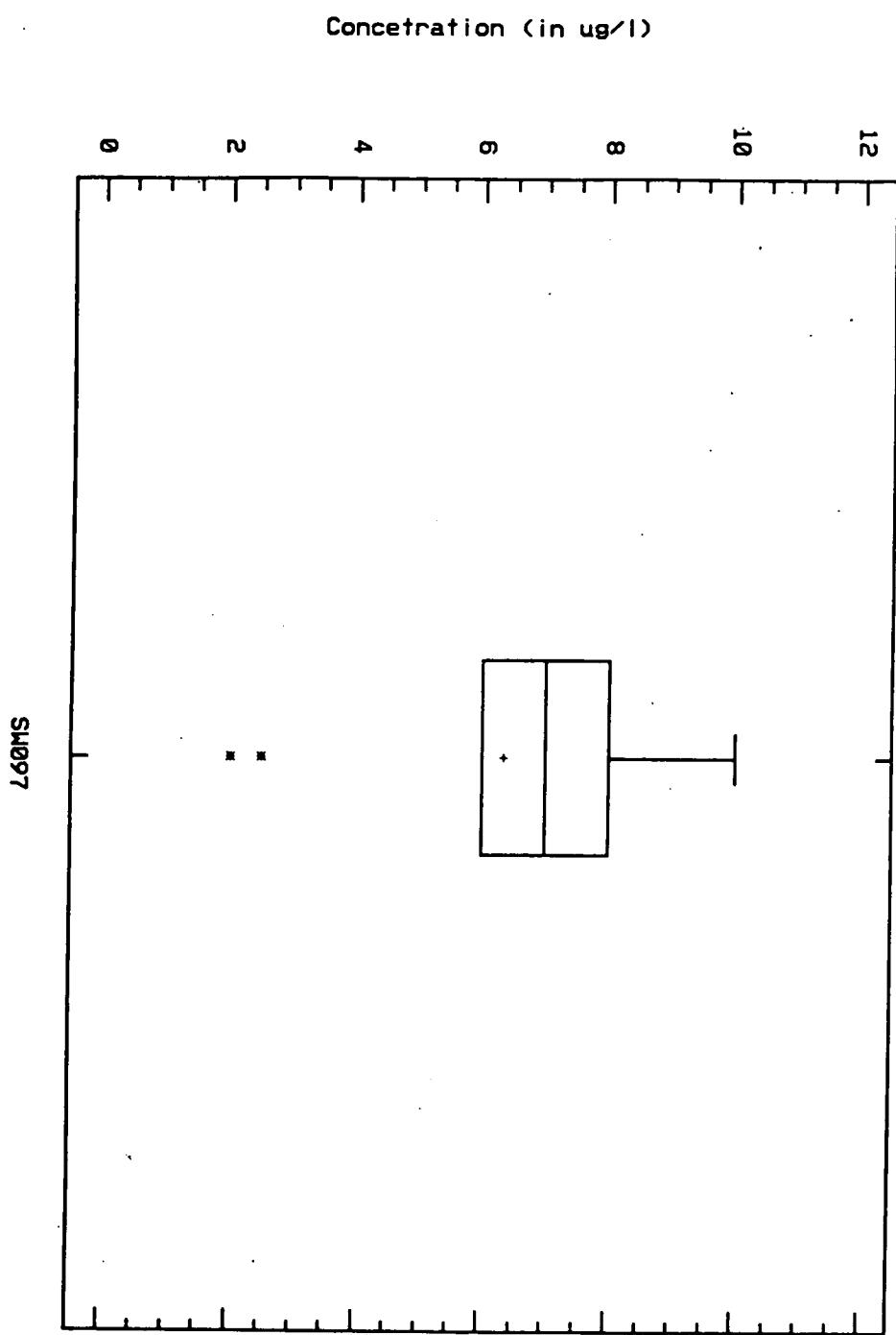


1,2-Dichloroethene (Total): Seep Water

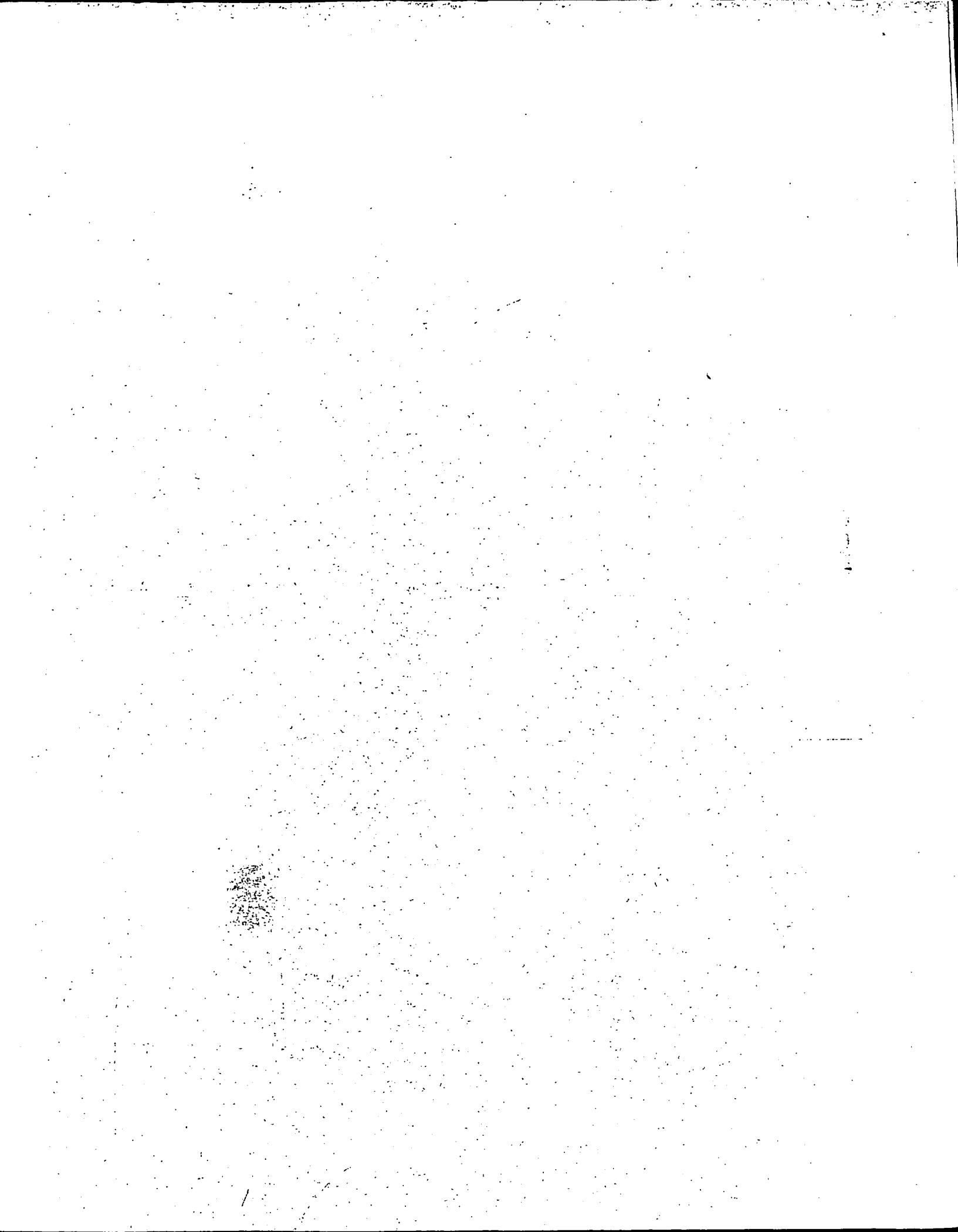
Background vs. 0U7



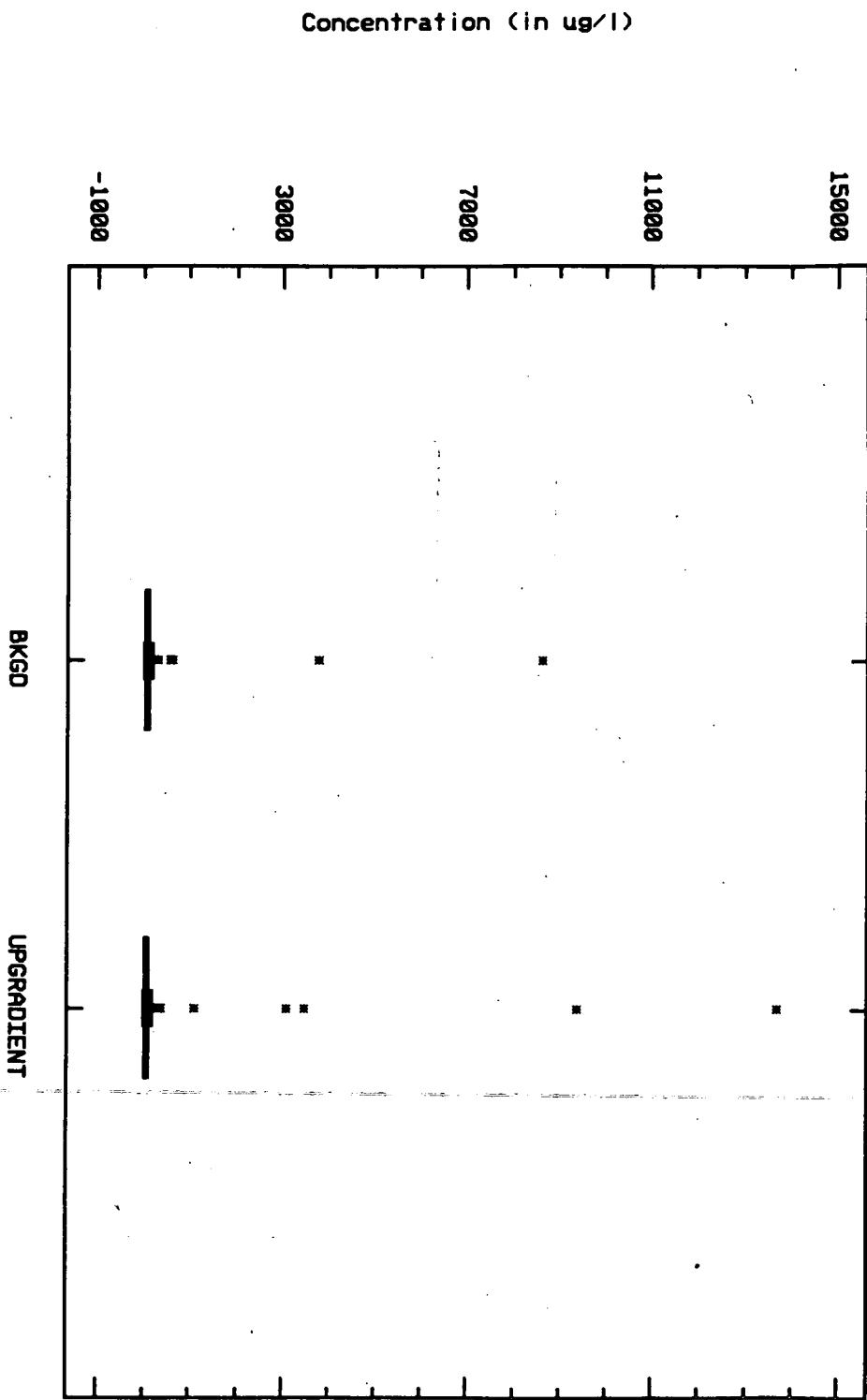
1,1-Dichloroethane (Total): Seep Water
Background vs. 0U7



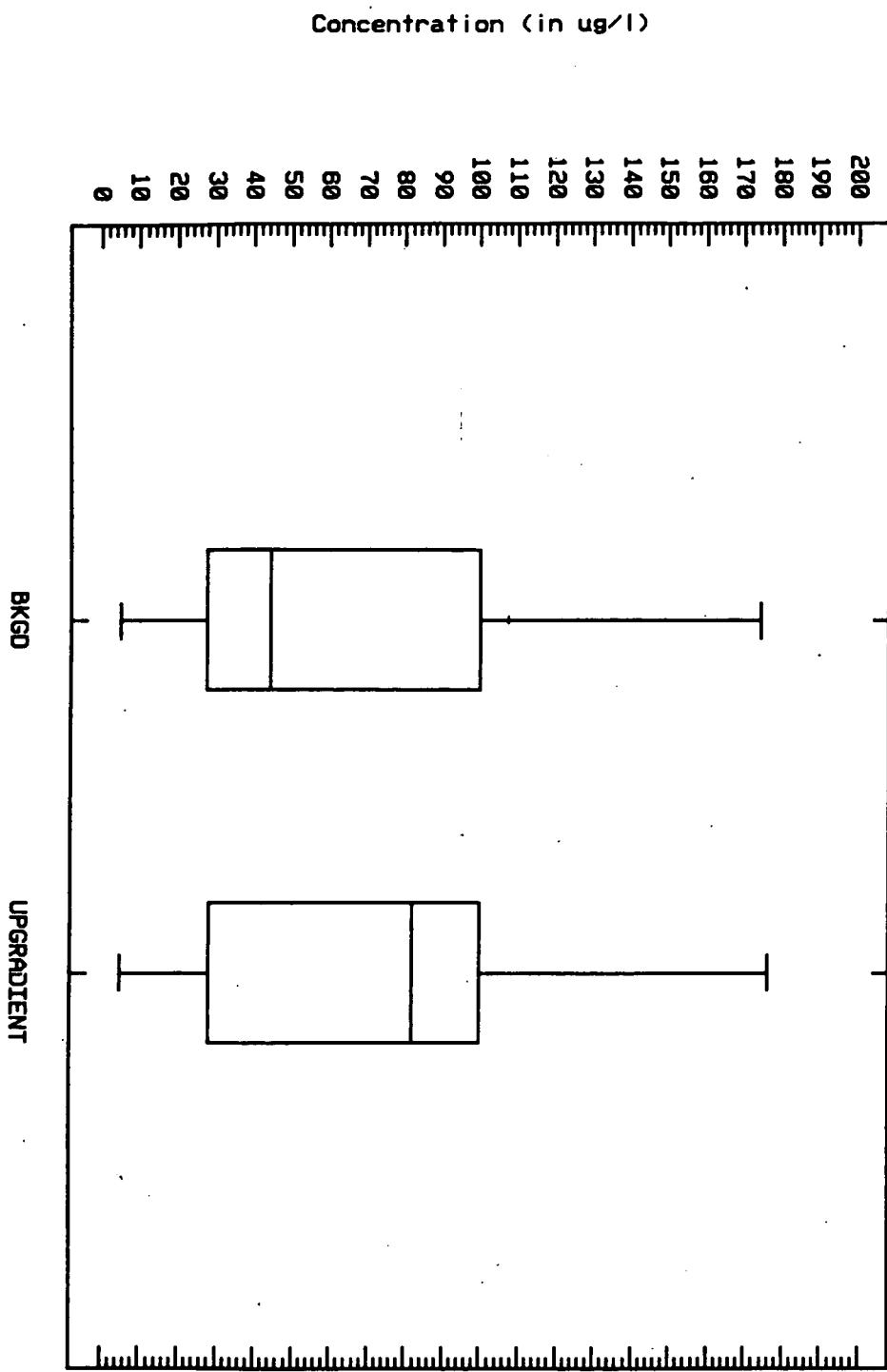
**Groundwater
(Dissolved)
Background vs. OU 7 UHSU**



Aluminum (Dissolved): Groundwater
Background vs. OUT UHSU

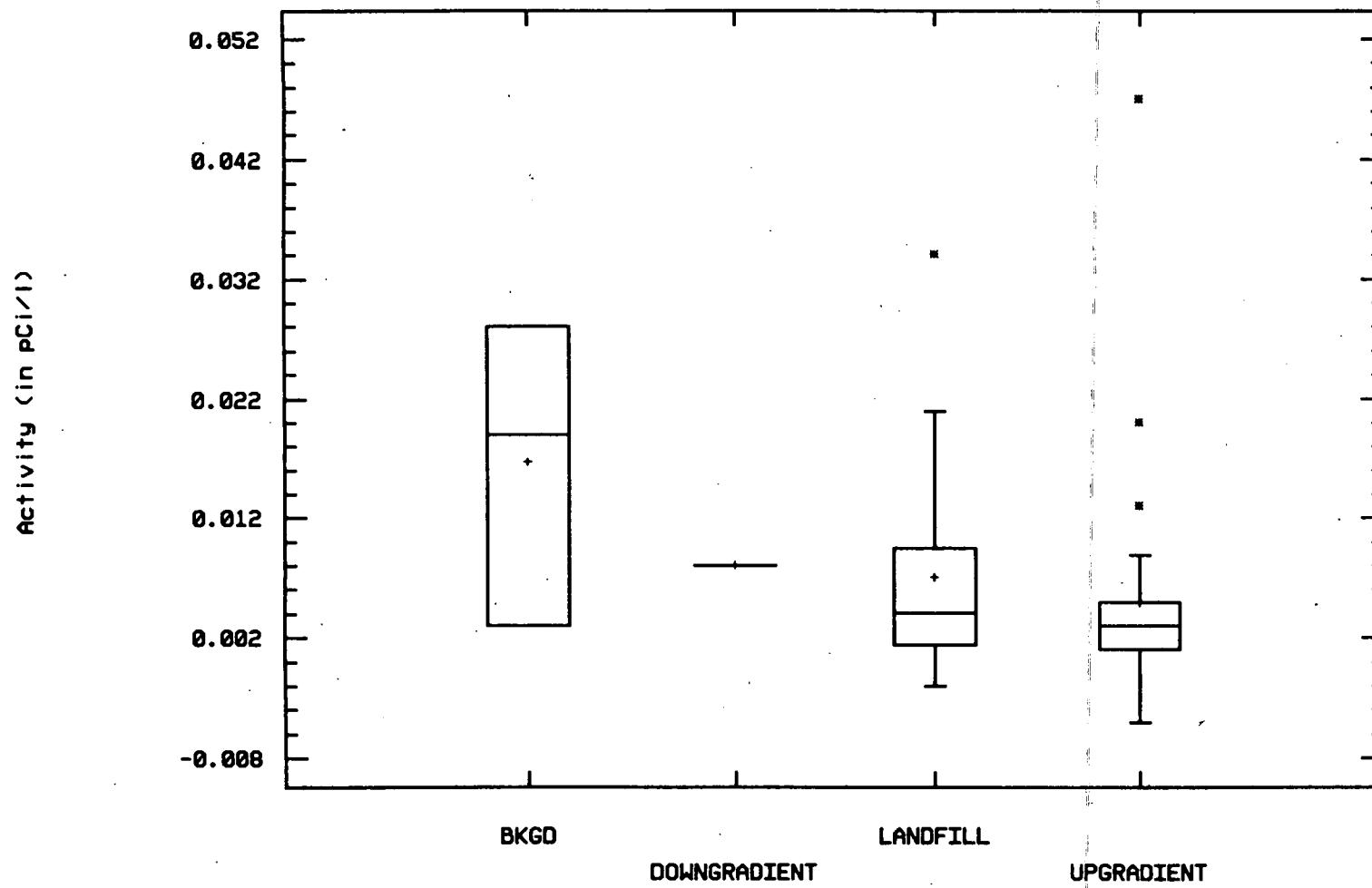


Aluminum (Dissolved): Groundwater
Background vs. OUT UHSU



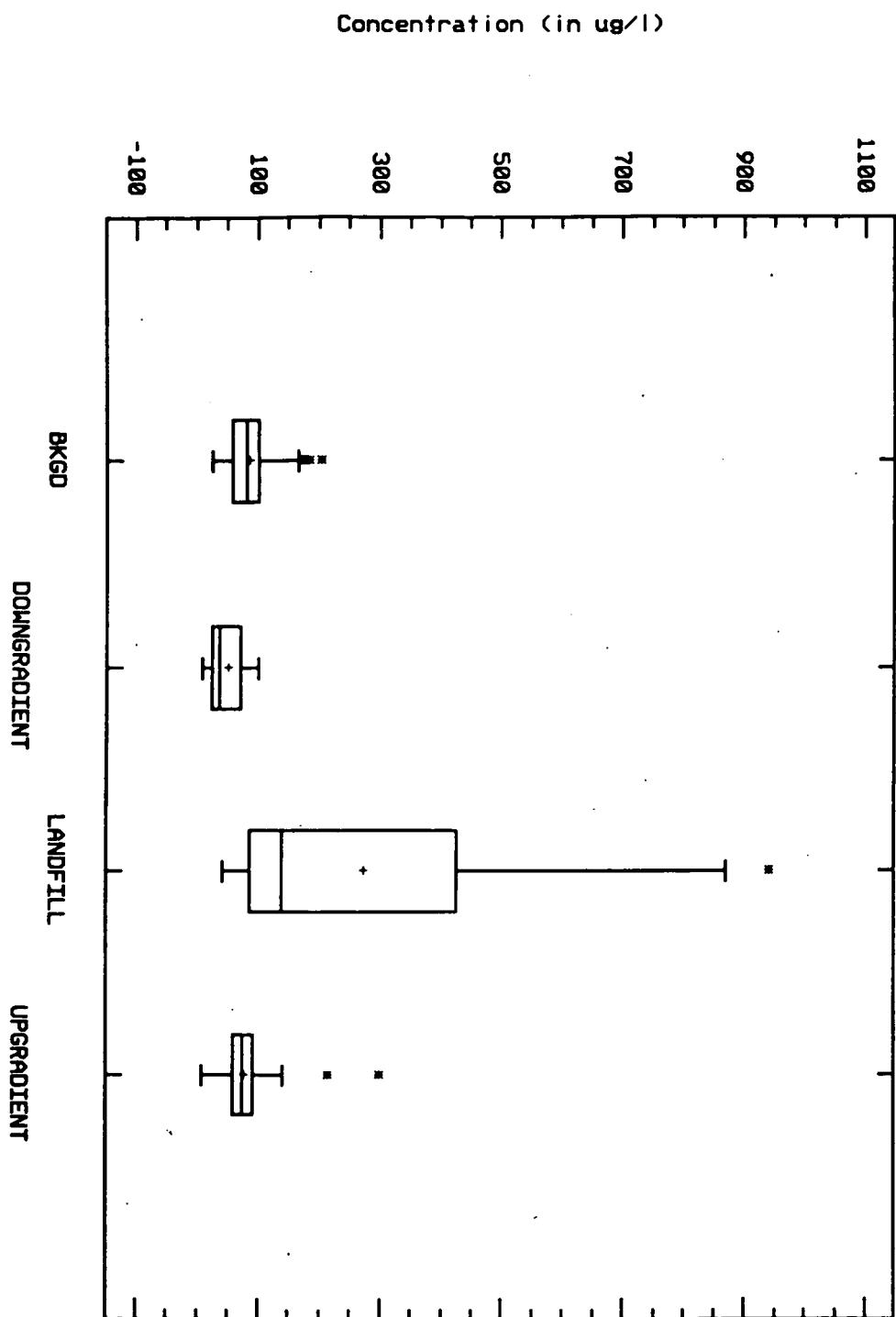
Americium-241 (Dissolved): Groundwater

Background vs. OU7 UHSU



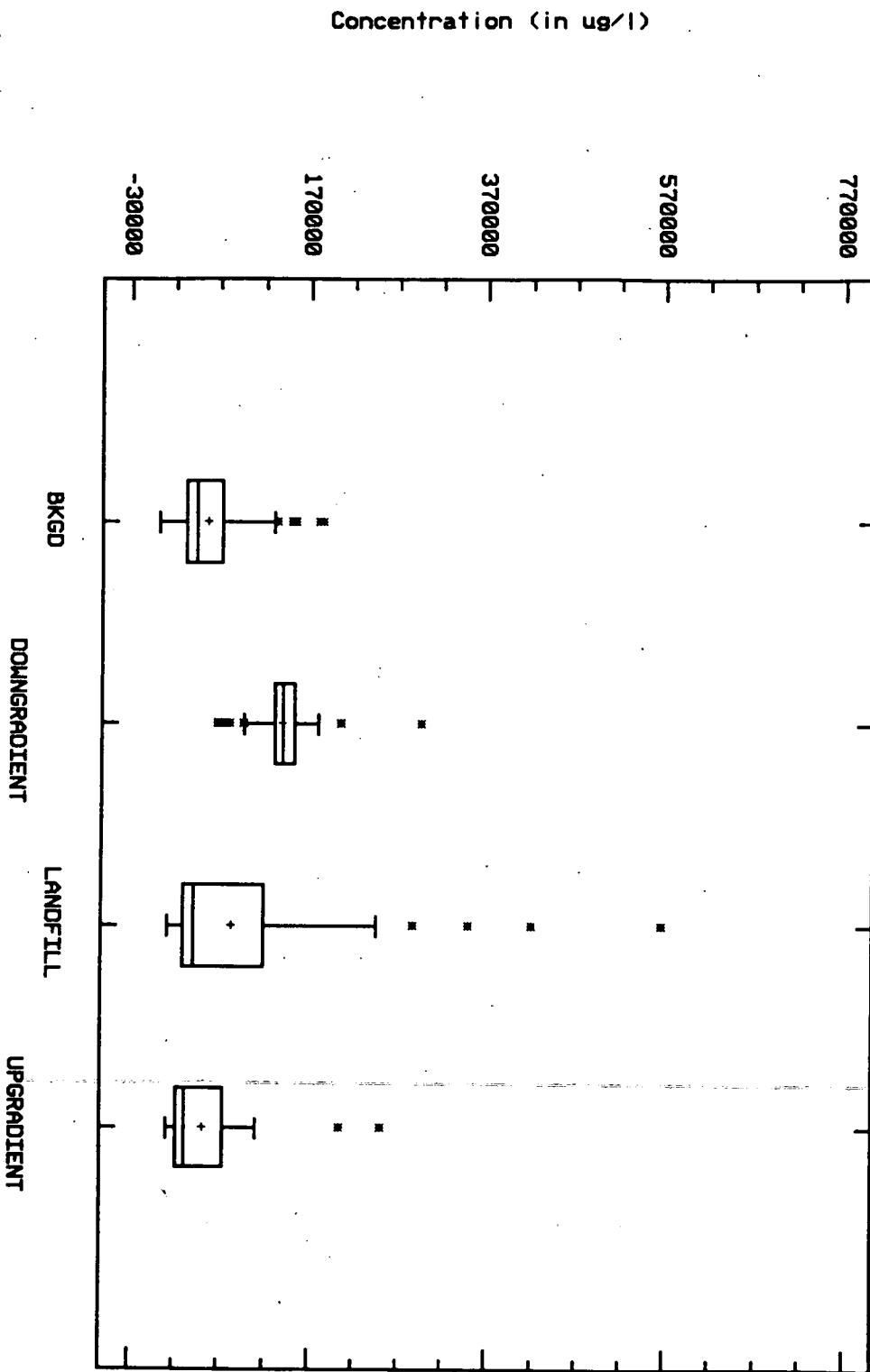
Barium (Dissolved): Groundwater

Background vs. 047 UHSU



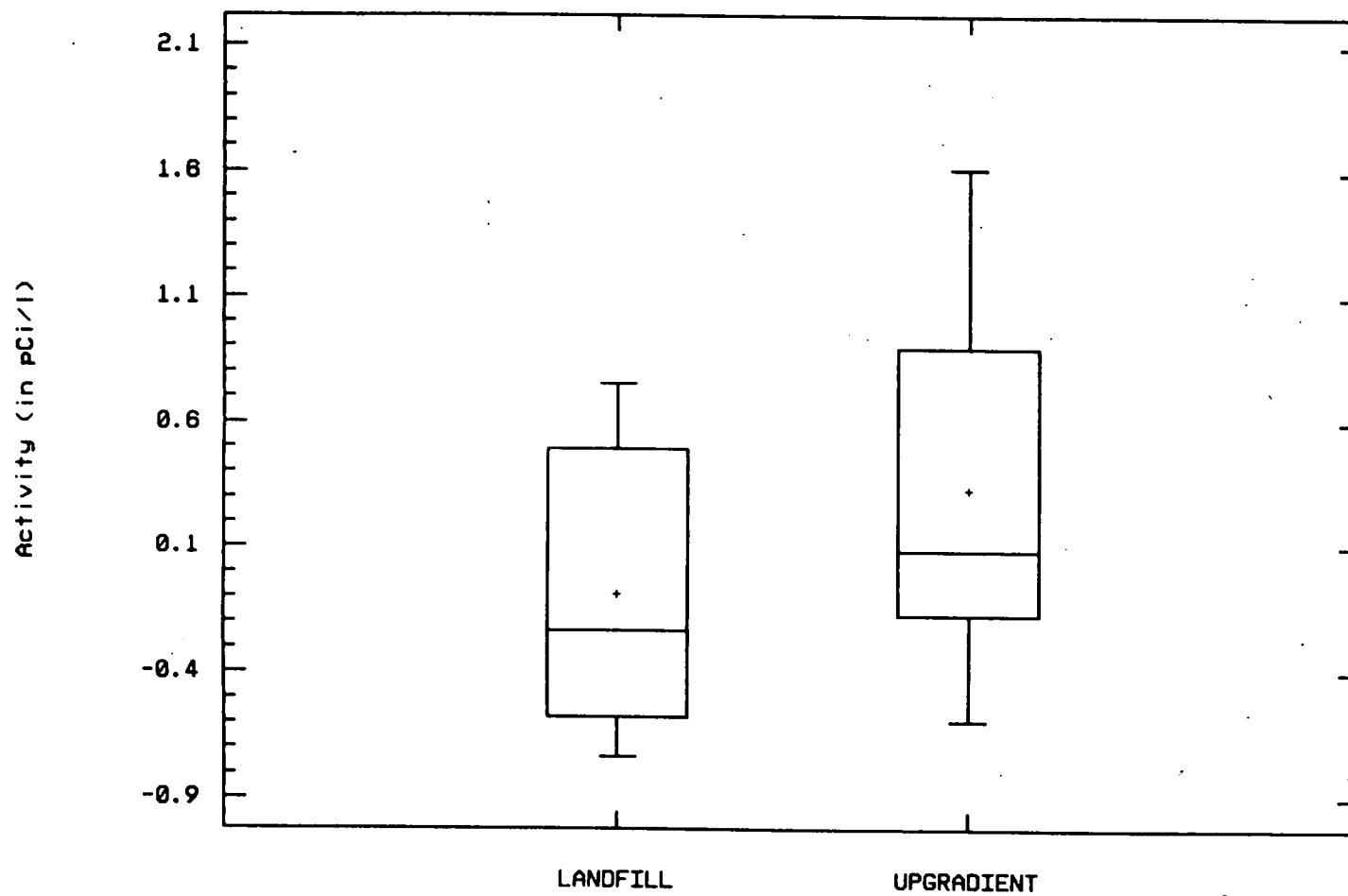
Calcium (Dissolved): Groundwater

Background vs. 017 UHSU

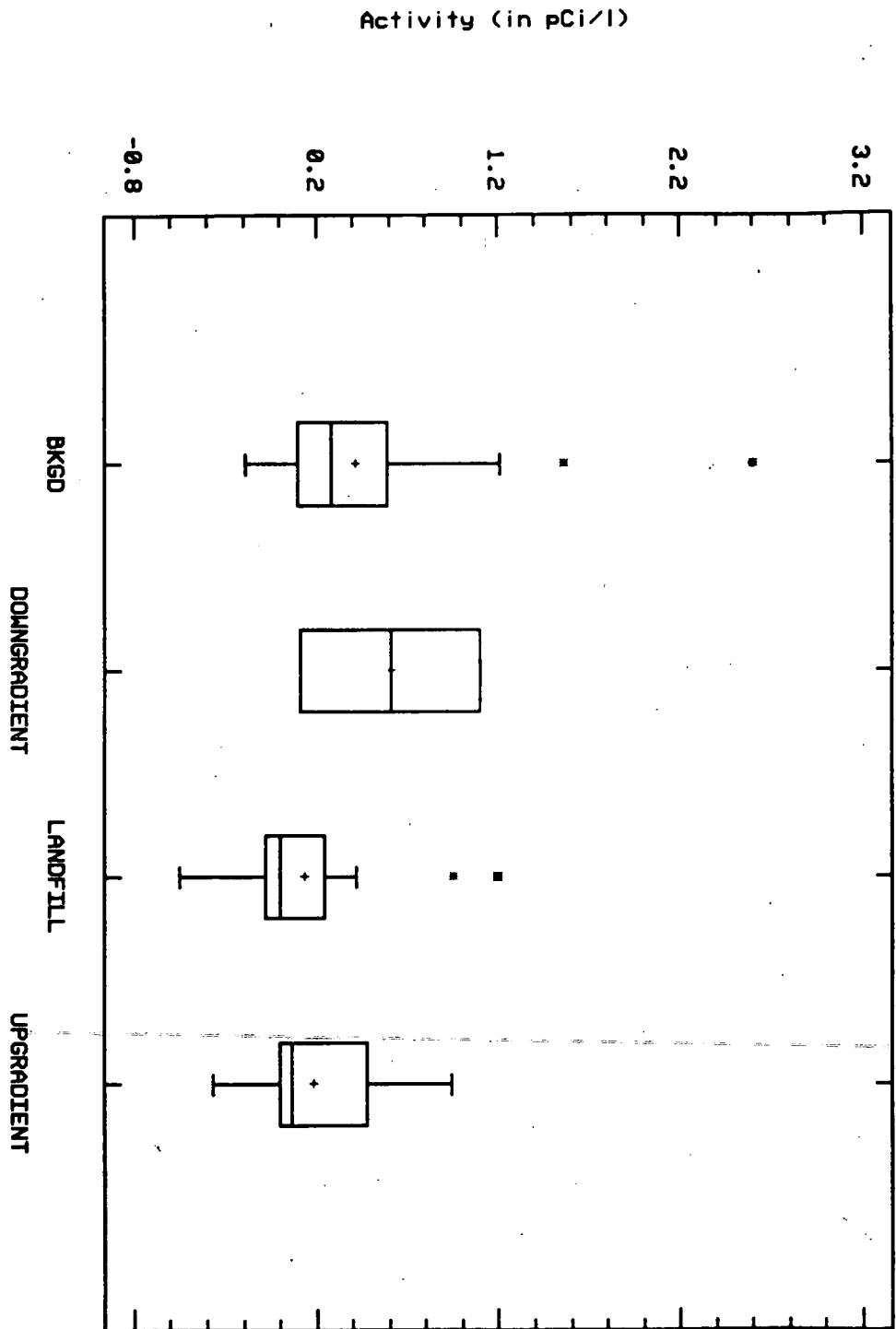


Cesium-134 (Dissolved): Groundwater

Background vs. OU7 UHSU

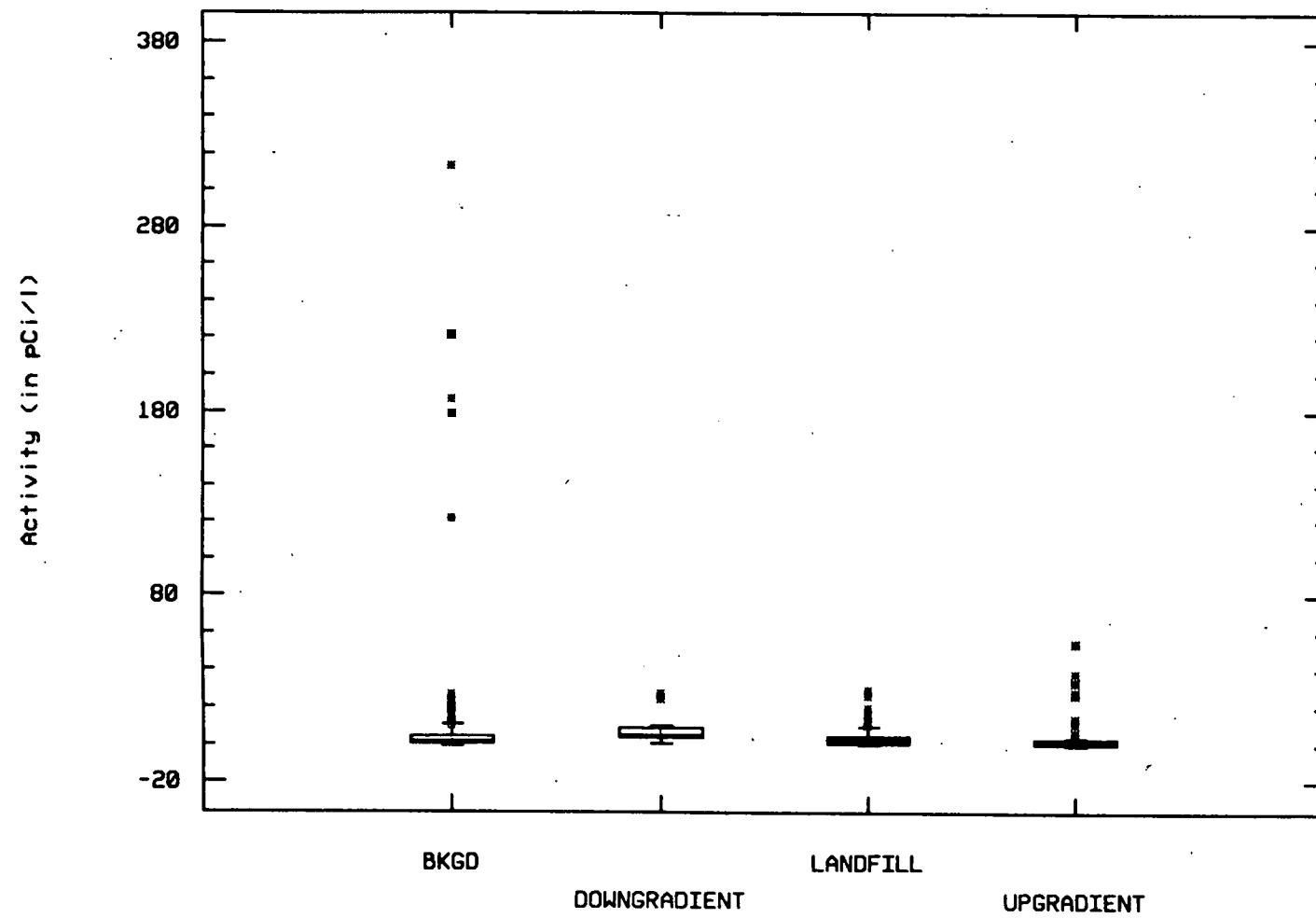


Cesium-137 (Dissolved): Groundwater
Background vs. OU7 UHSU

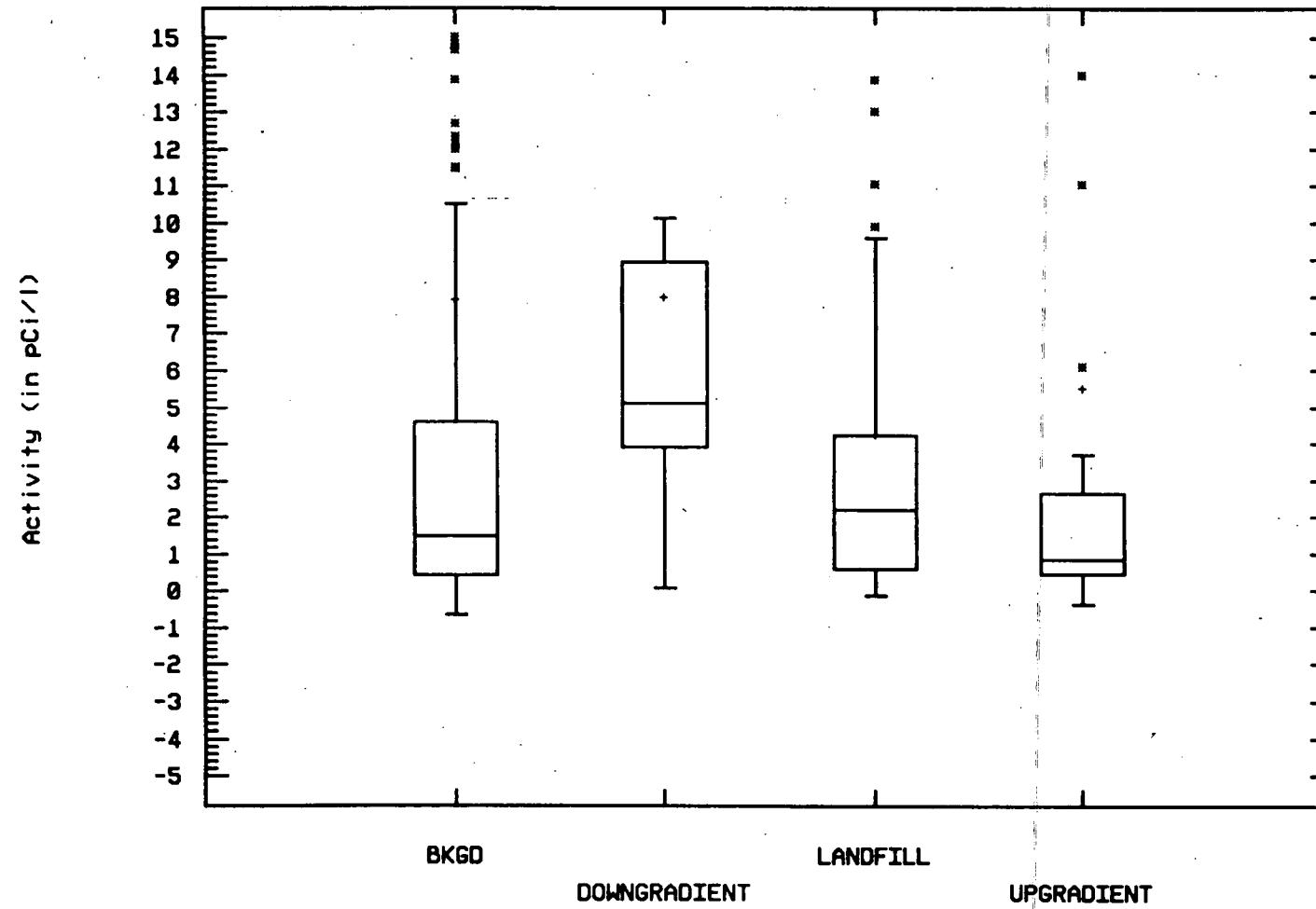


Gross Alpha (Dissolved): Groundwater

Background vs. OU7 UHSU

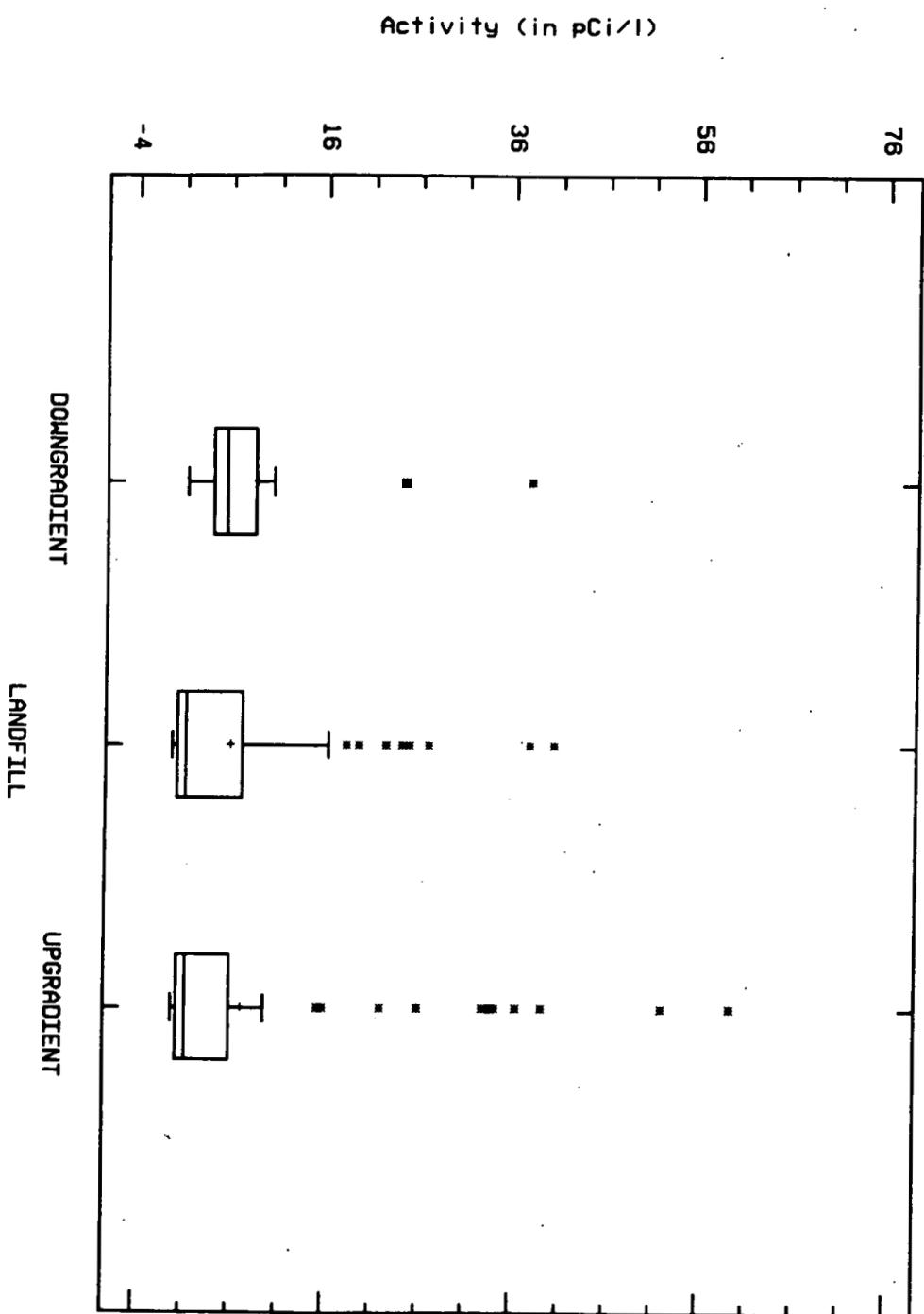


Gross Alpha (Dissolved): Groundwater
Background vs. OU7 UHSU

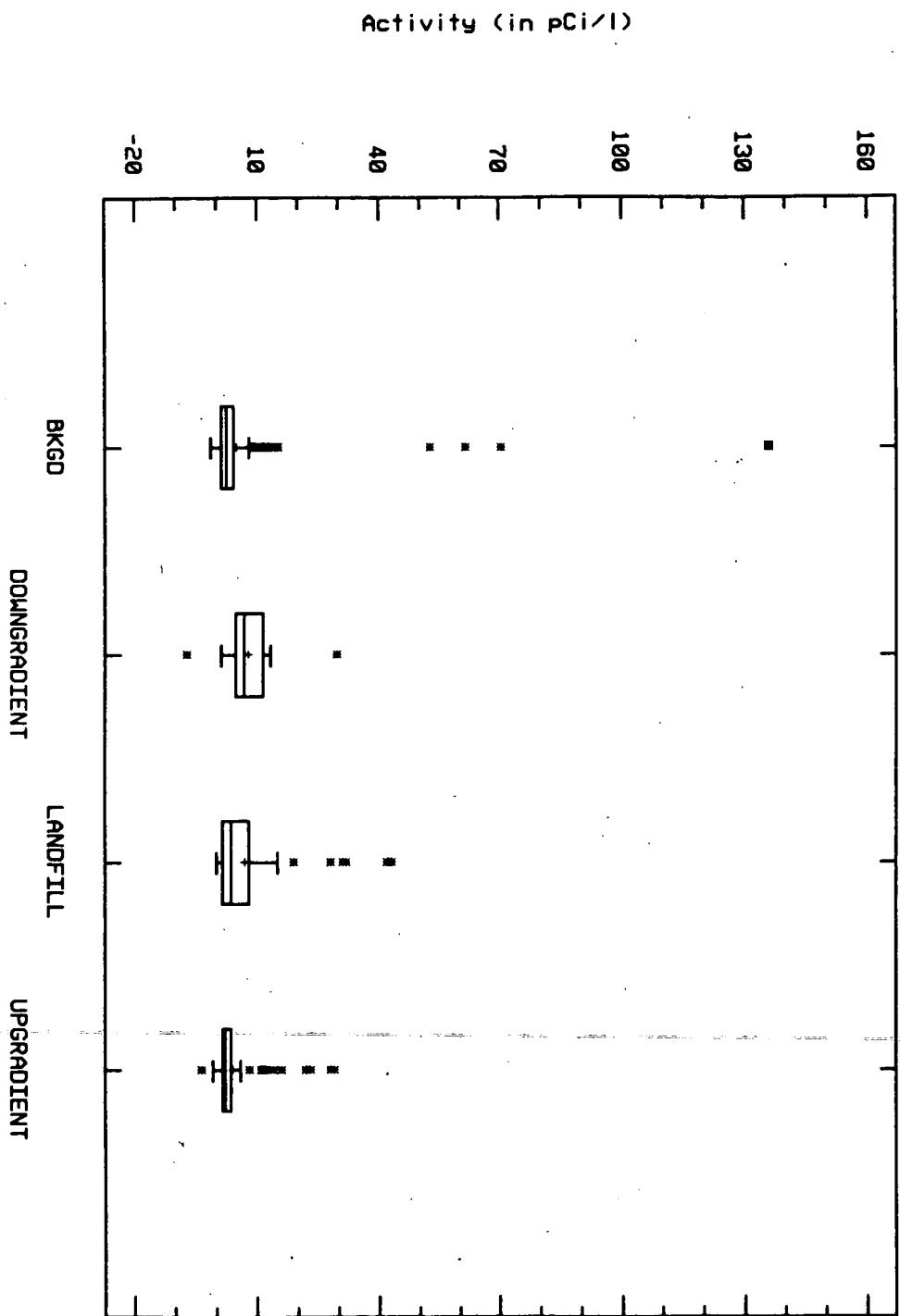


Gross Alpha-Dis. (Dissolved): Groundwater

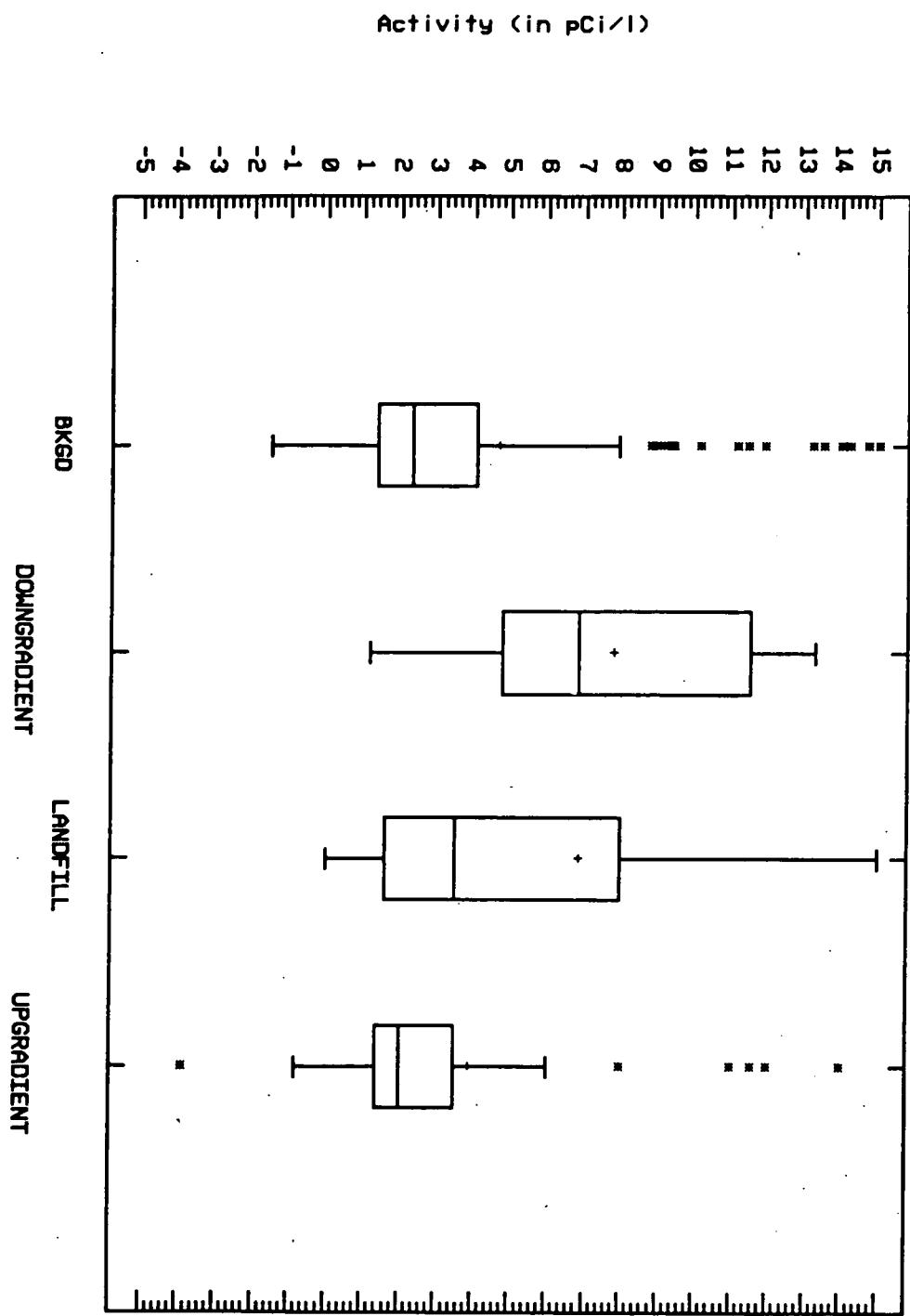
Background vs. OUT UHSU



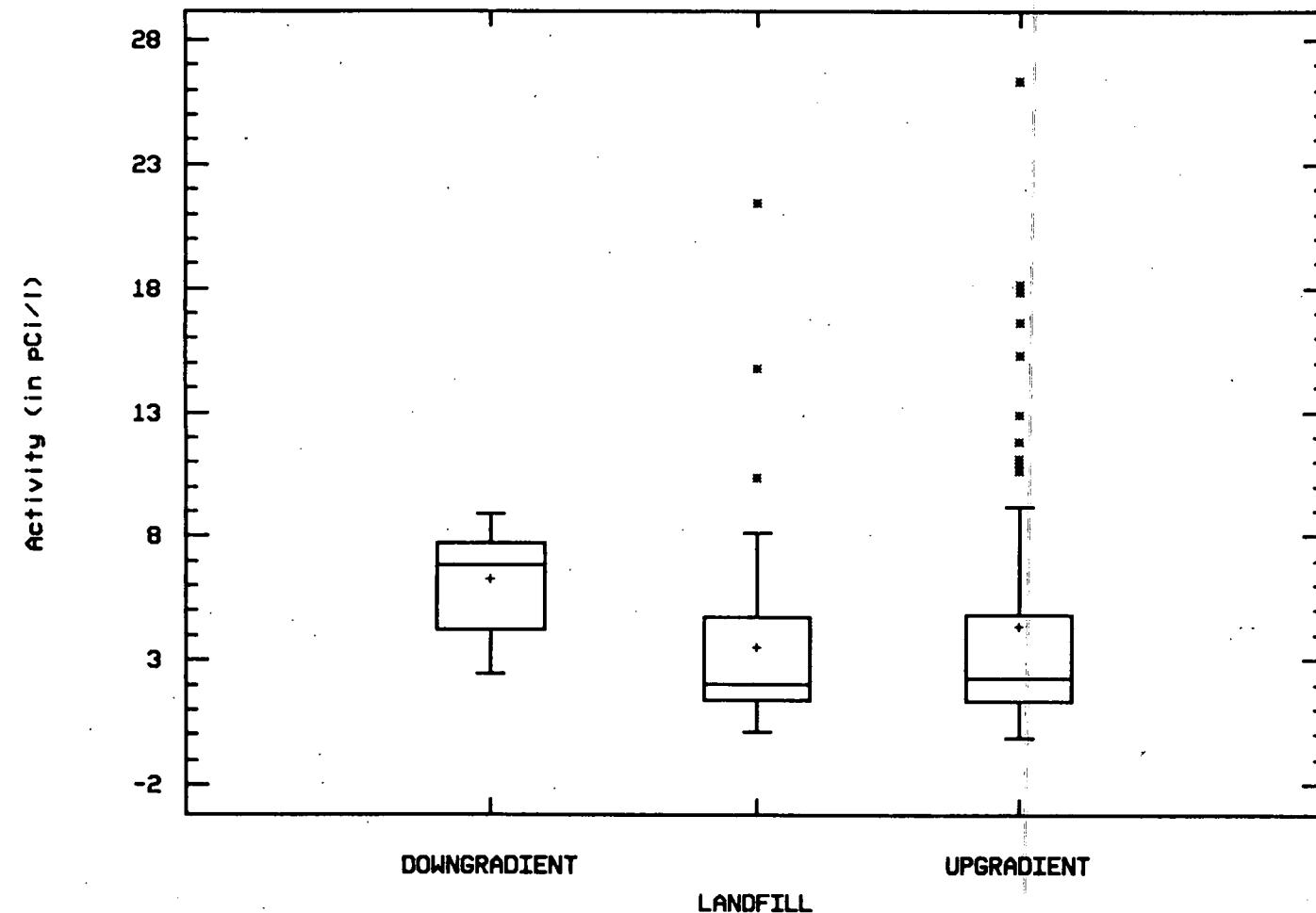
Gross Beta (Dissolved): Groundwater
Background vs. OUT UHSU



Gross Beta (Dissolved): Groundwater
Background vs. OUT UHSU

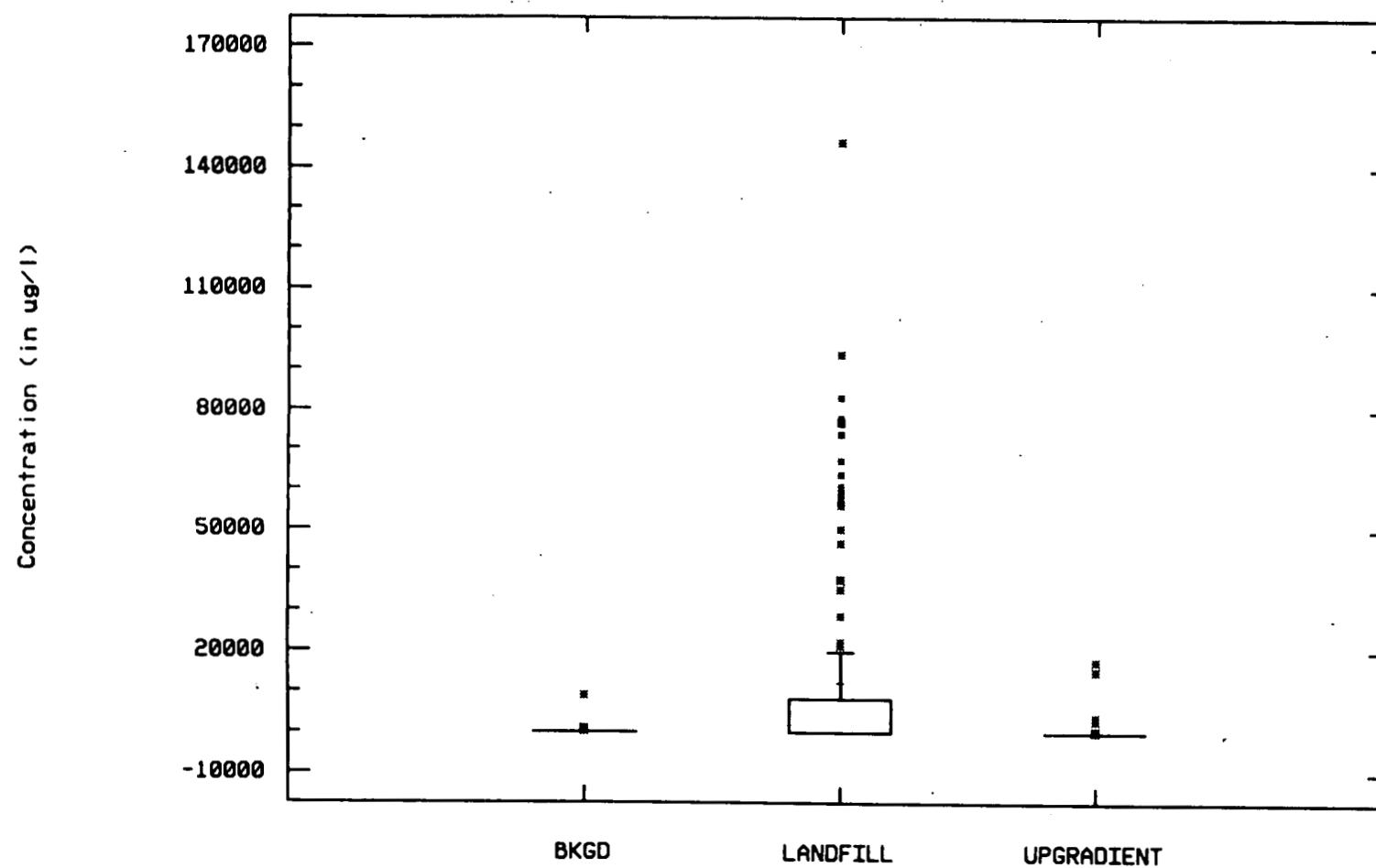


Gross Beta-Dis. (Dissolved): Groundwater
Background vs. OU7 UHSU

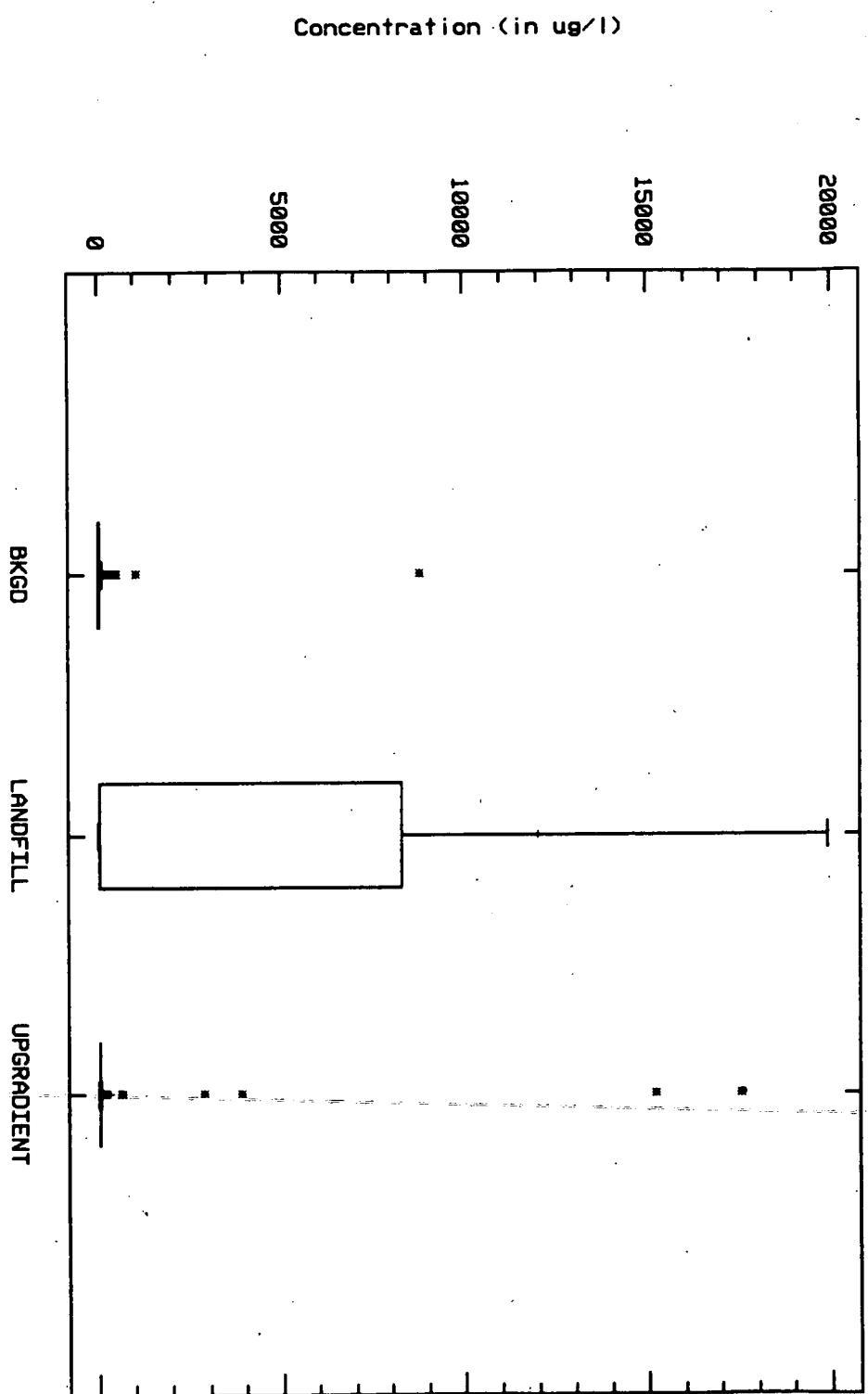


Iron (Dissolved): Groundwater

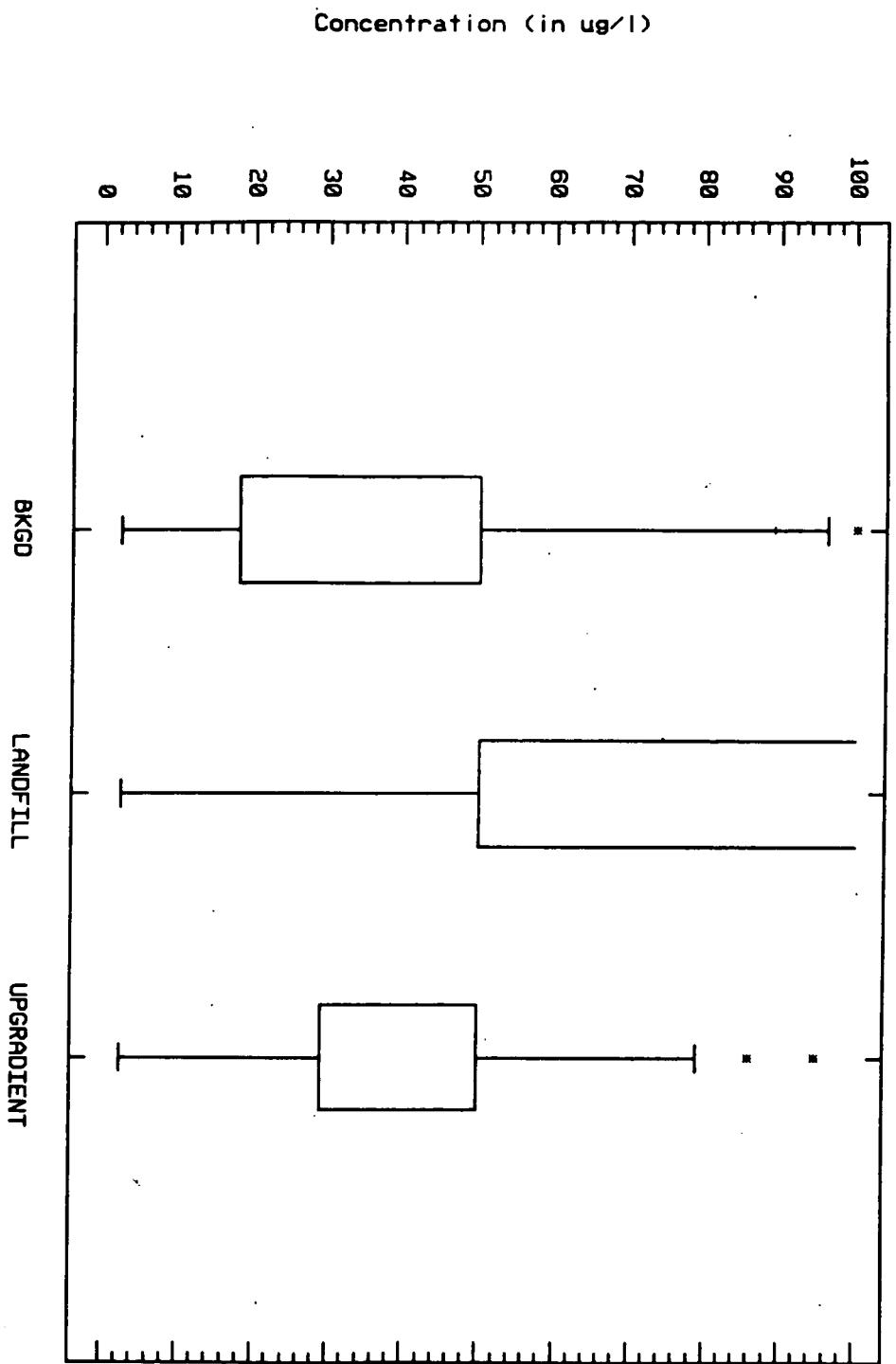
Background vs. OU7 UHSU



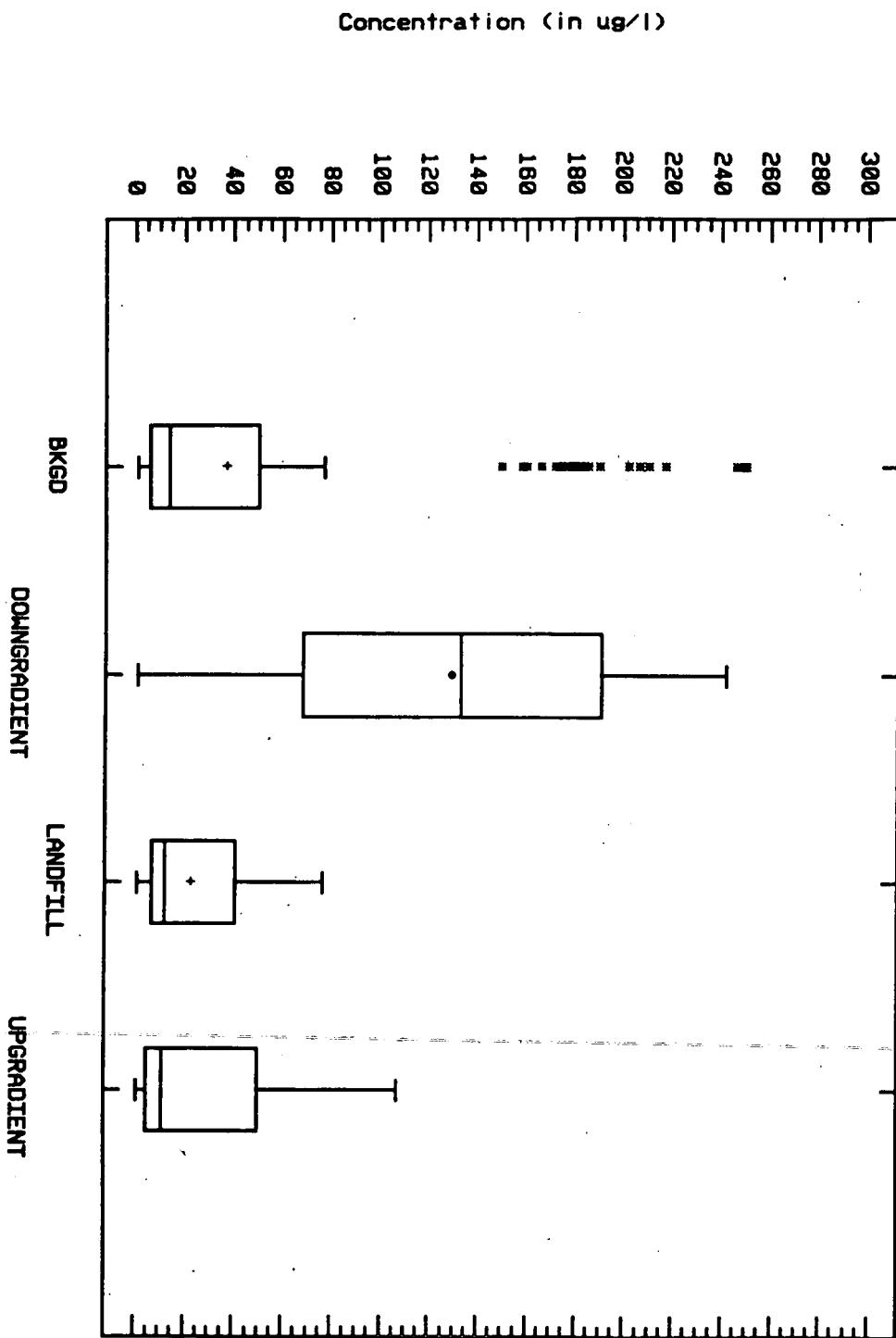
Iron (Dissolved): Groundwater
Background vs. OUT UHSU



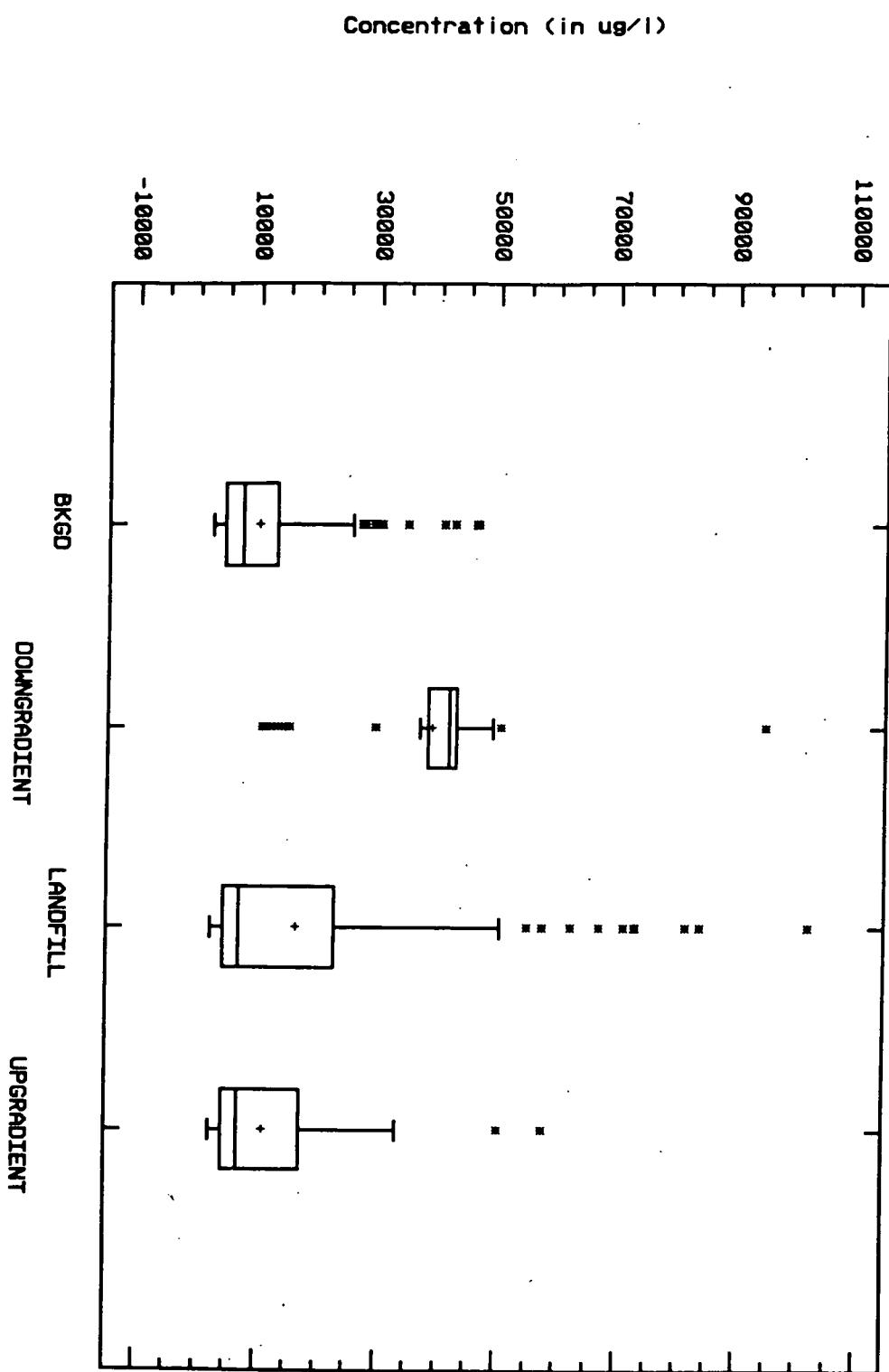
Iron (Dissolved): Groundwater
Background vs. OU7 UHSU



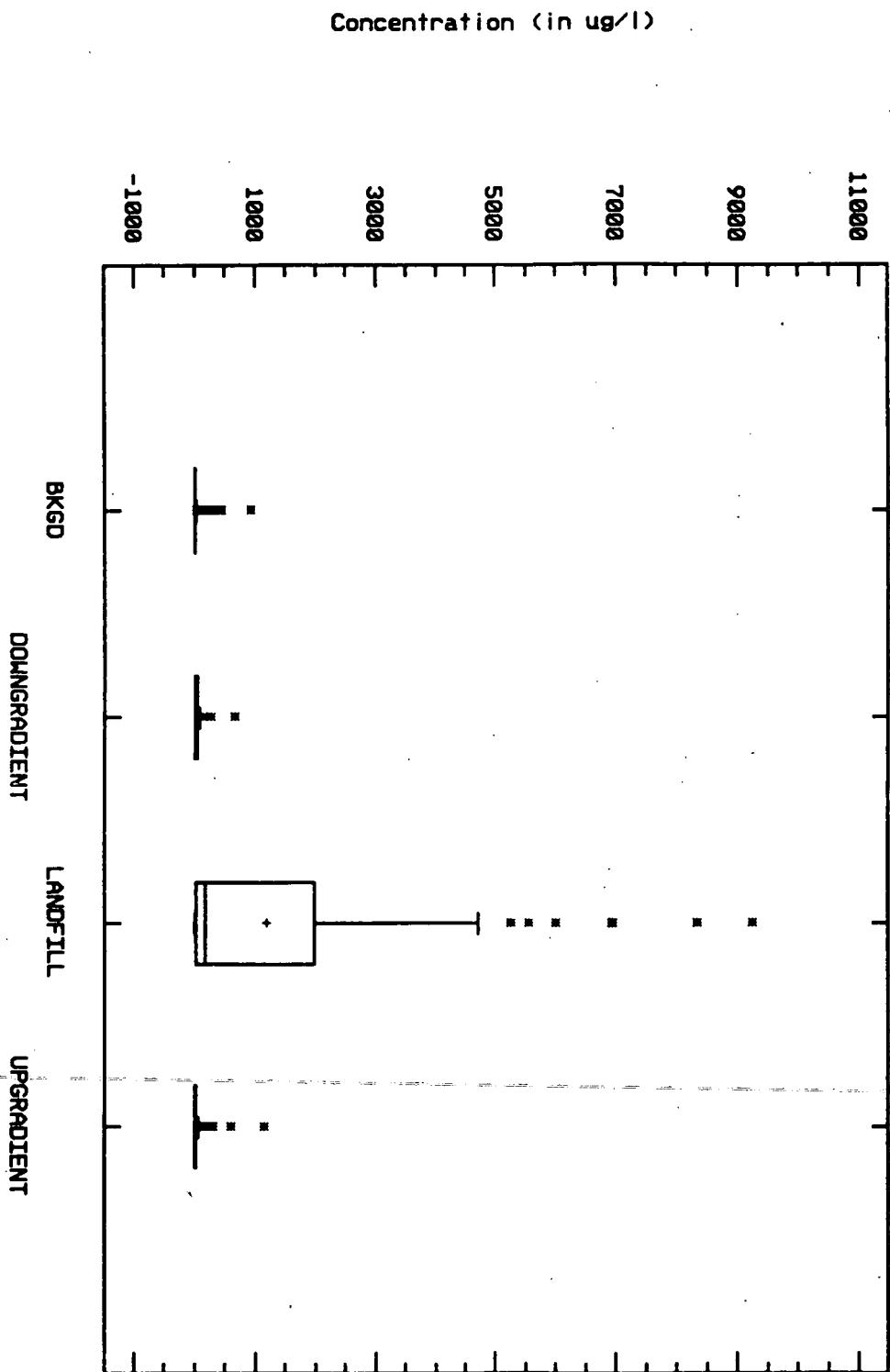
Lithium (Dissolved): Groundwater
Background vs. 007 UHSU



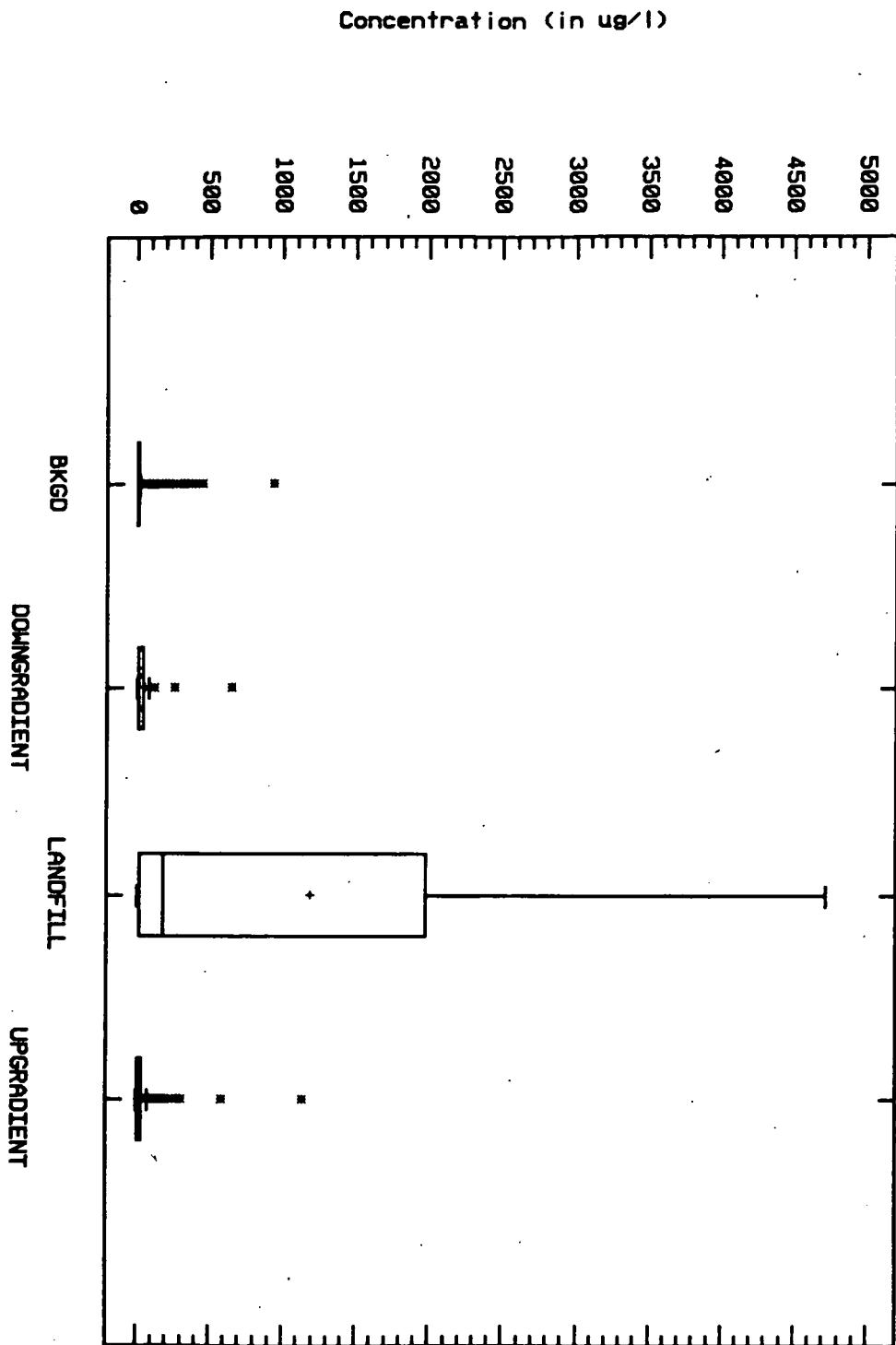
Manganese (Dissolved): Groundwater
Background vs. OU7 UHSU



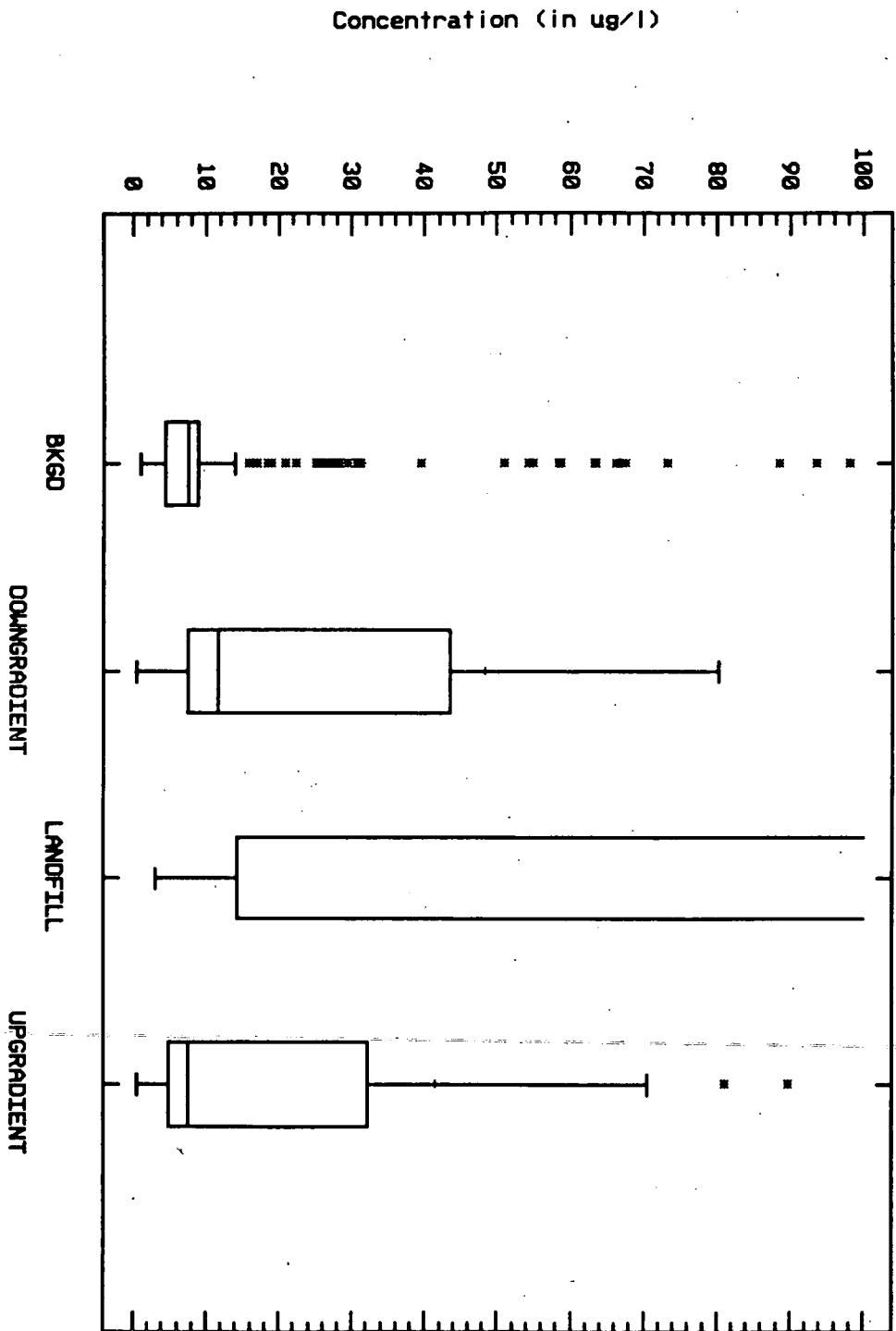
Manganese (Dissolved): Groundwater
Background vs. DUT UHSU



Manganese (Dissolved): Groundwater
Background vs. OU7 UHSU

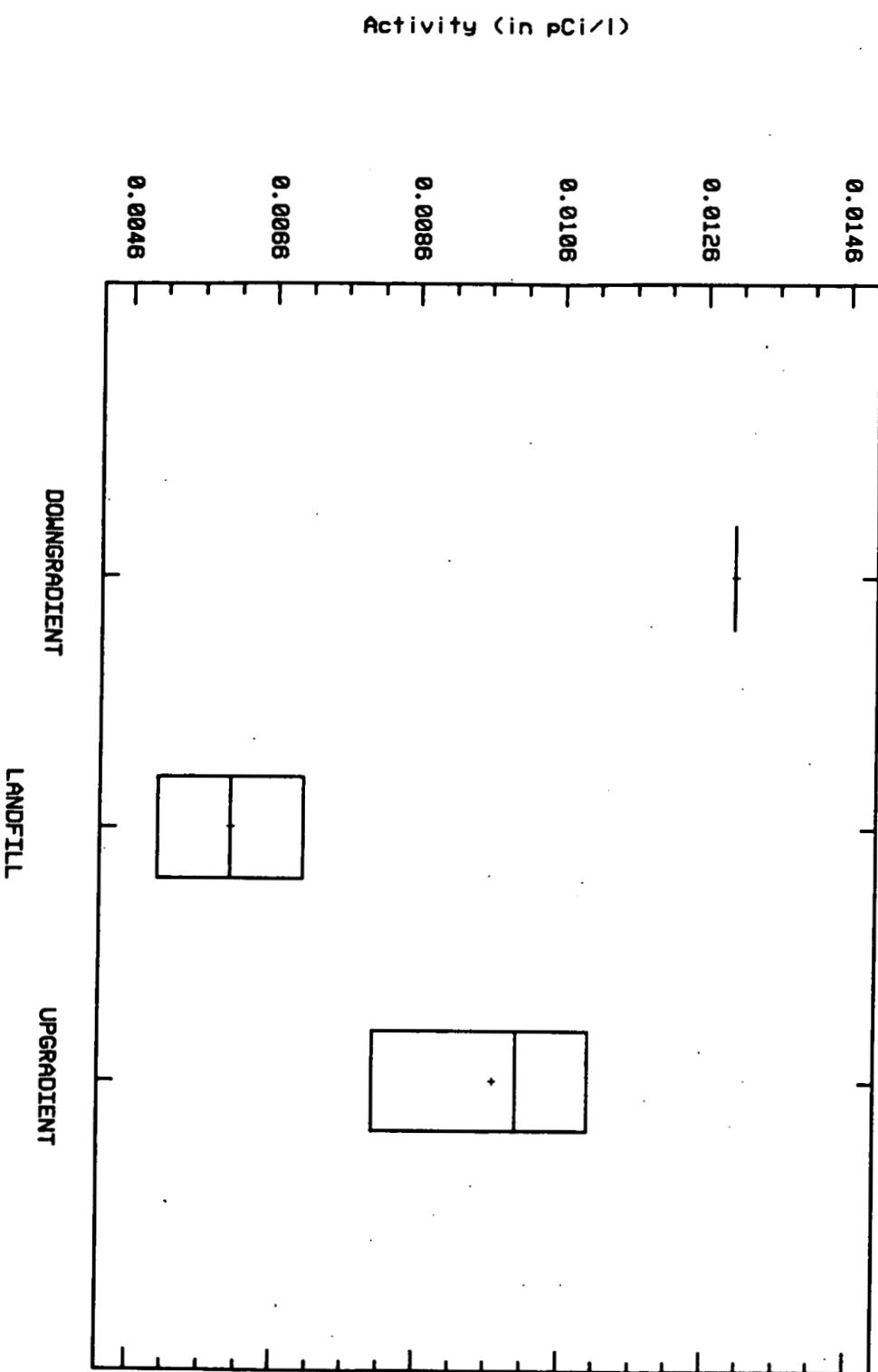


Manganese (Dissolved): Groundwater
Background vs. 017 UHSU



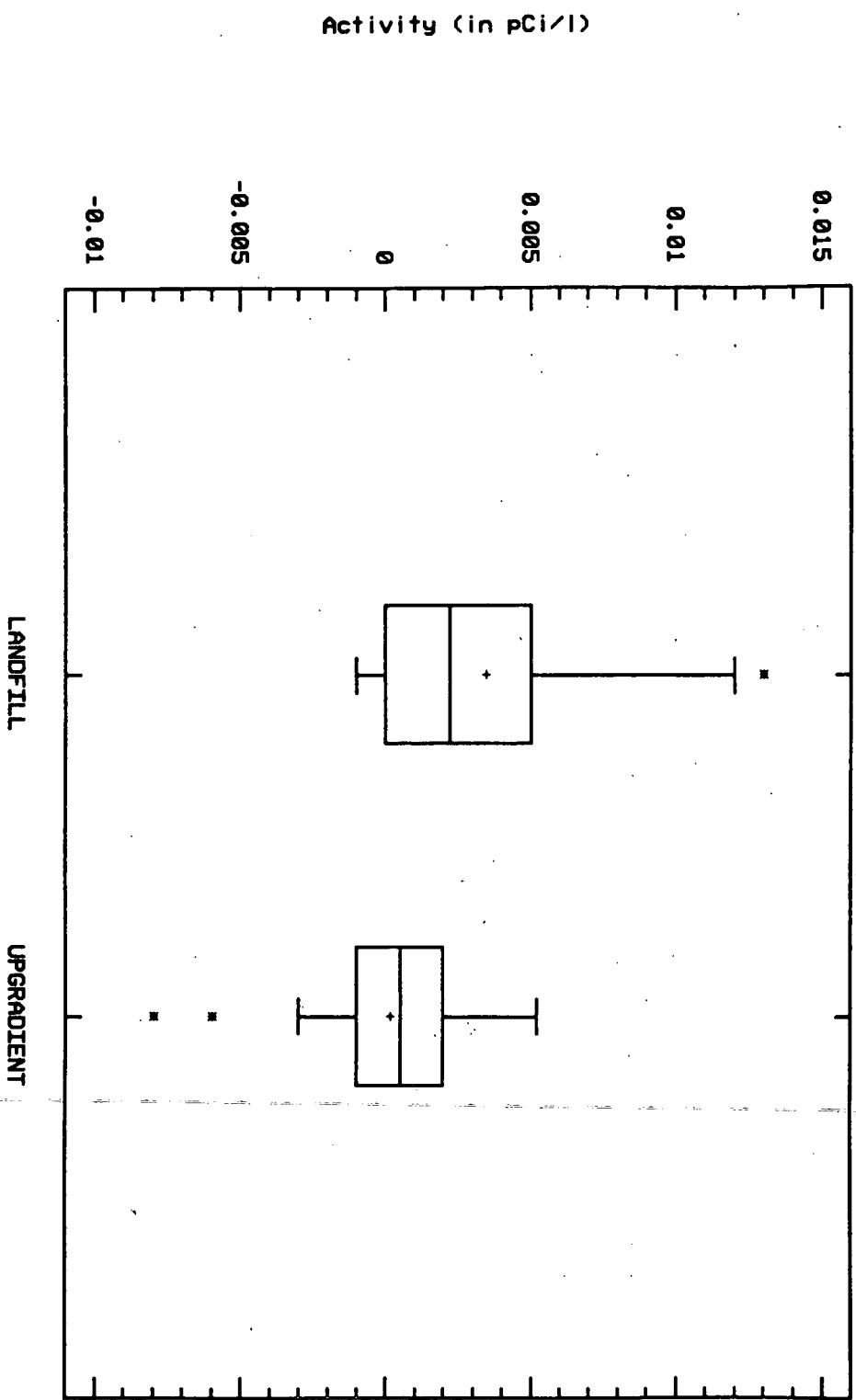
Plutonium-239 (Dissolved): Groundwater

Background vs. OUT UHSU



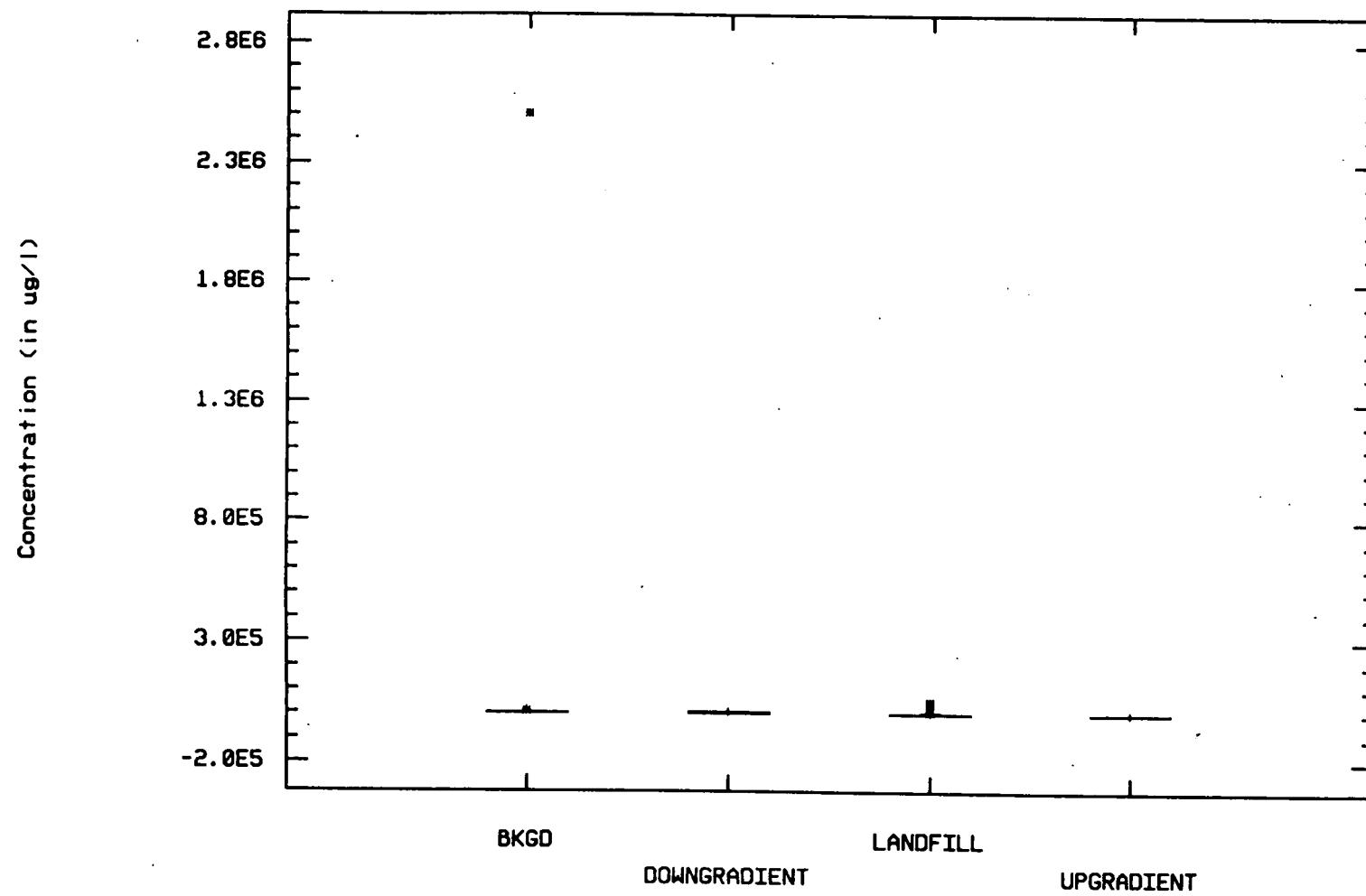
Plutonium-239/240(Dissolved):Groundwater

Background vs. 007 UHSU

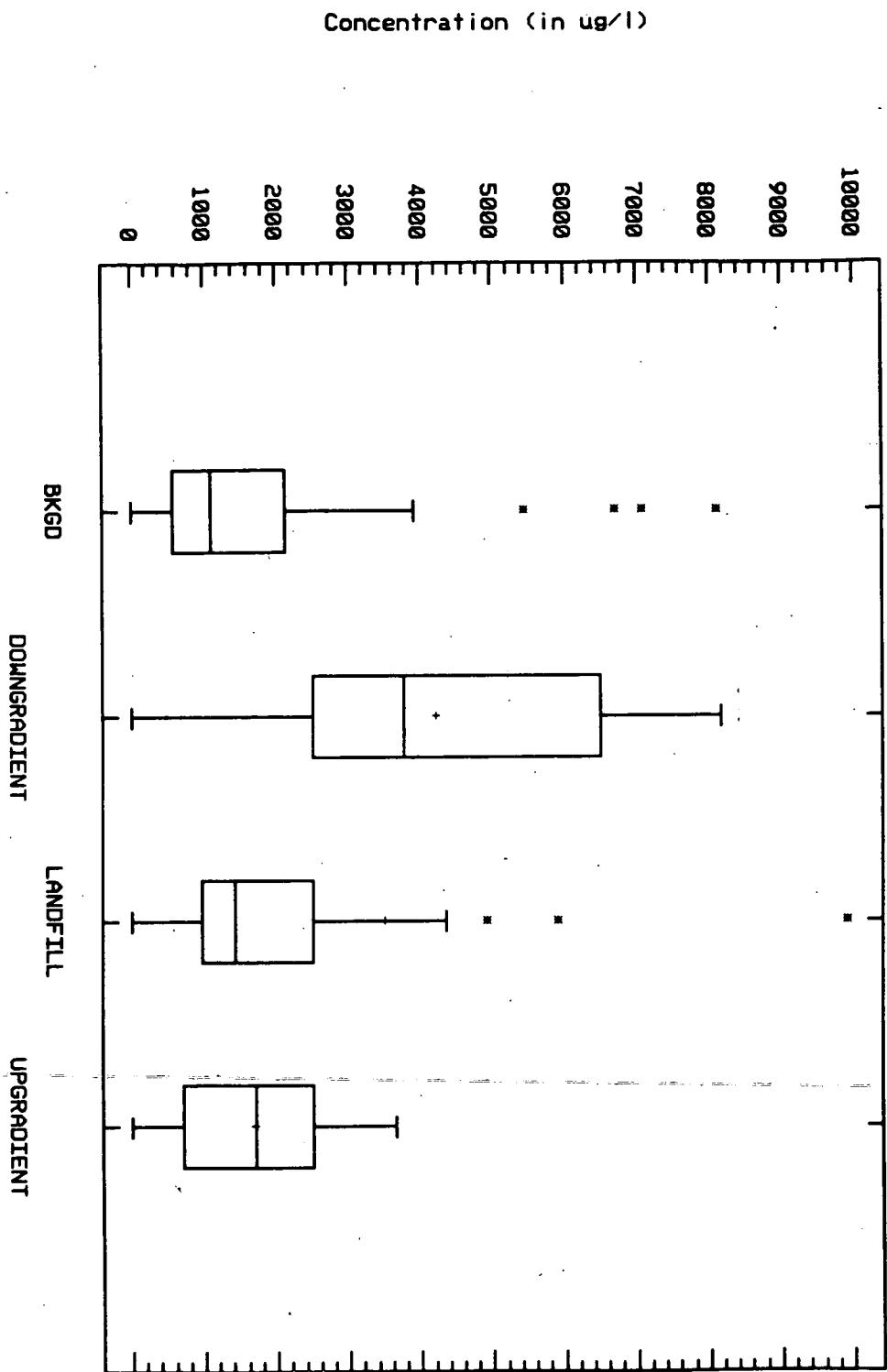


Potassium (Dissolved): Groundwater

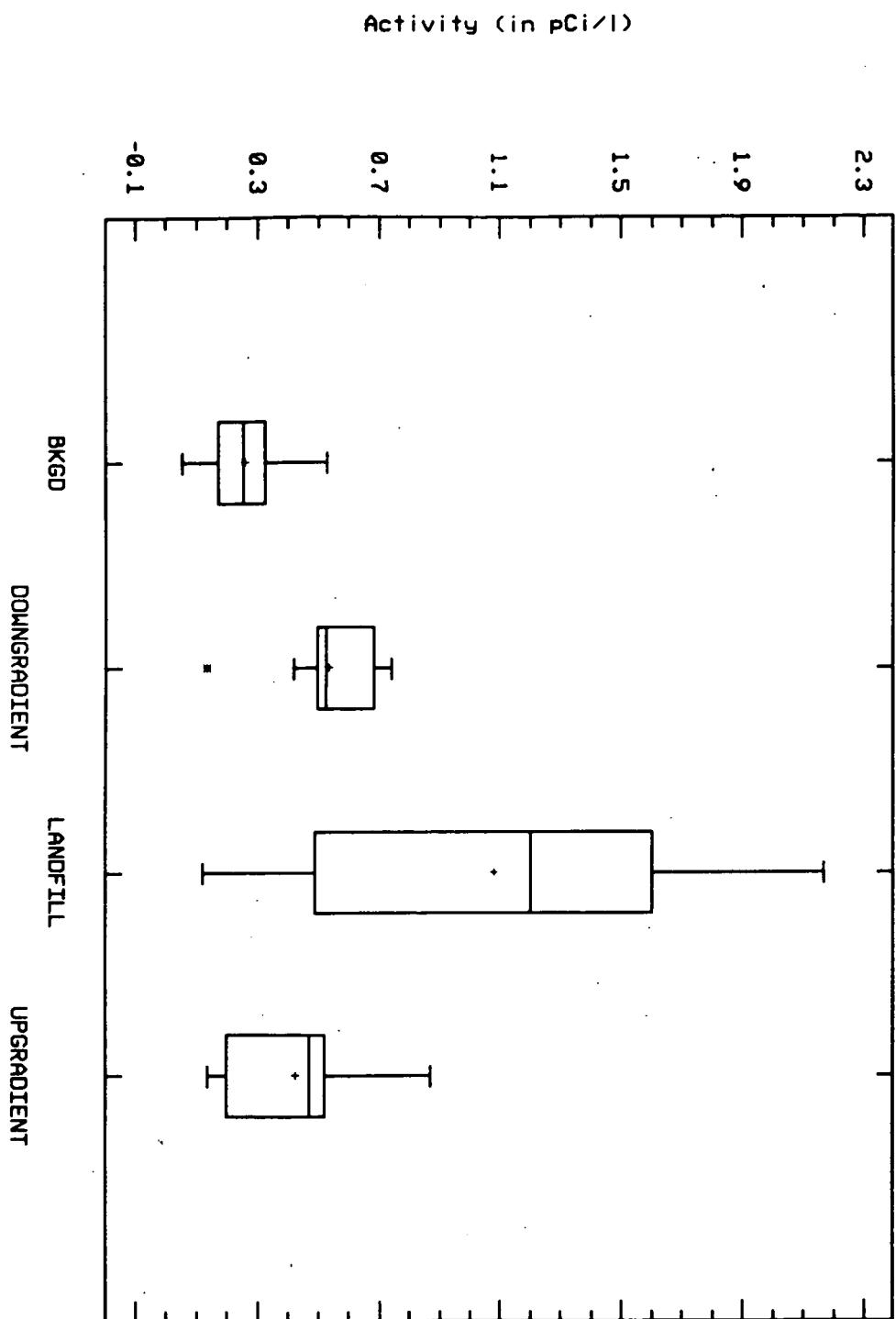
Background vs. OU7 UHSU



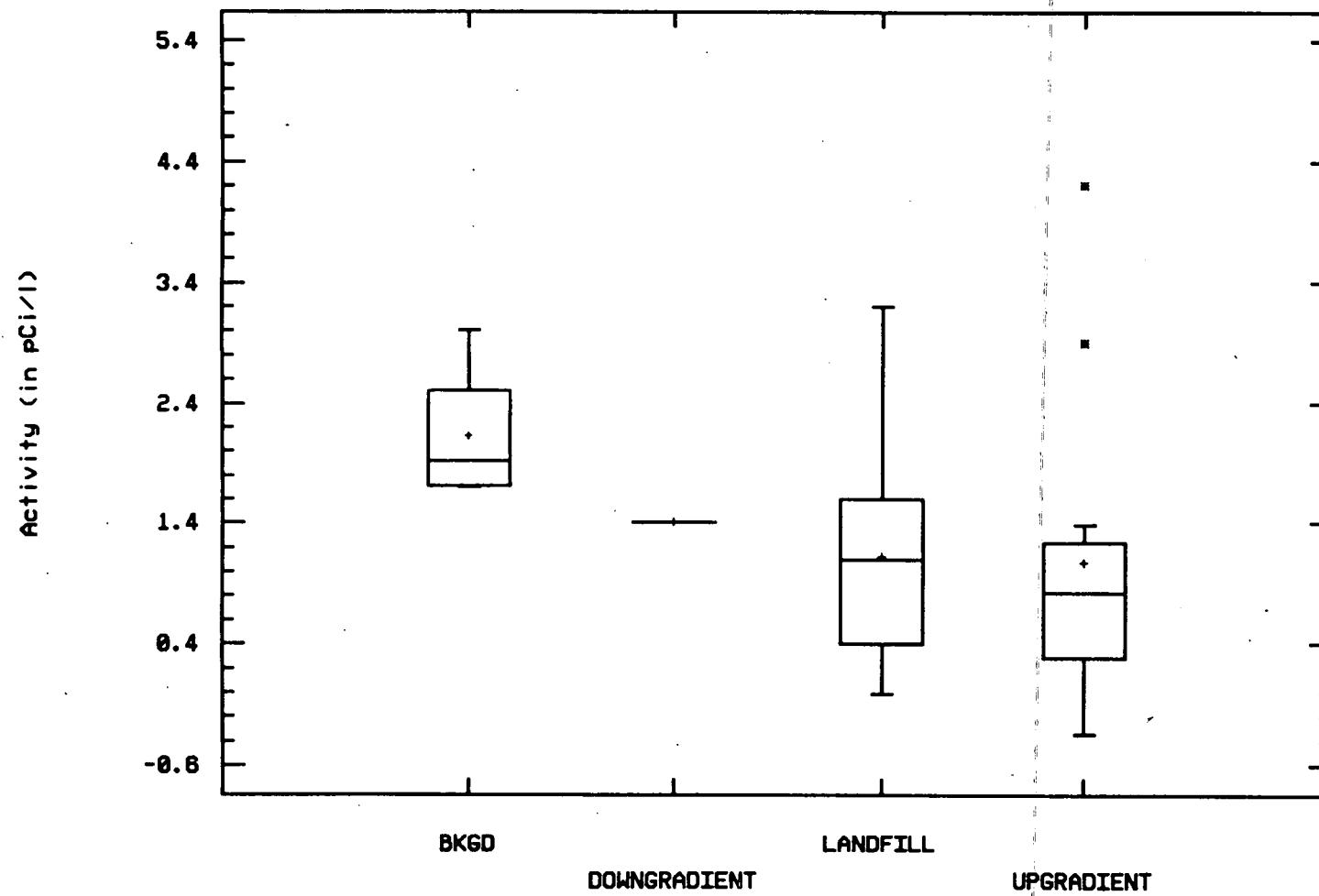
Potassium (Dissolved): Groundwater
Background vs. OUT UHSU



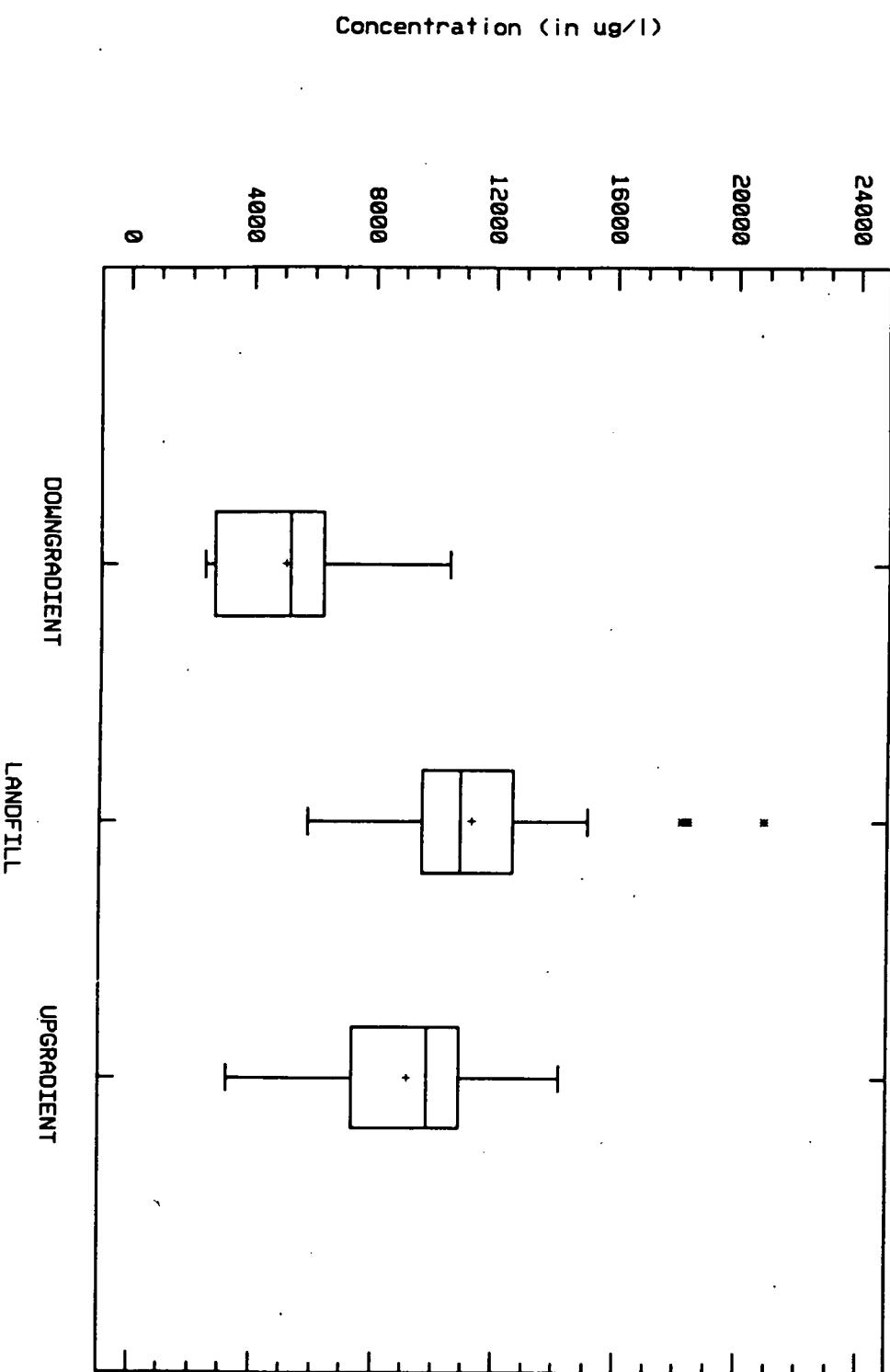
Radium-226 (Dissolved):Groundwater
Background vs. OUT UHSU



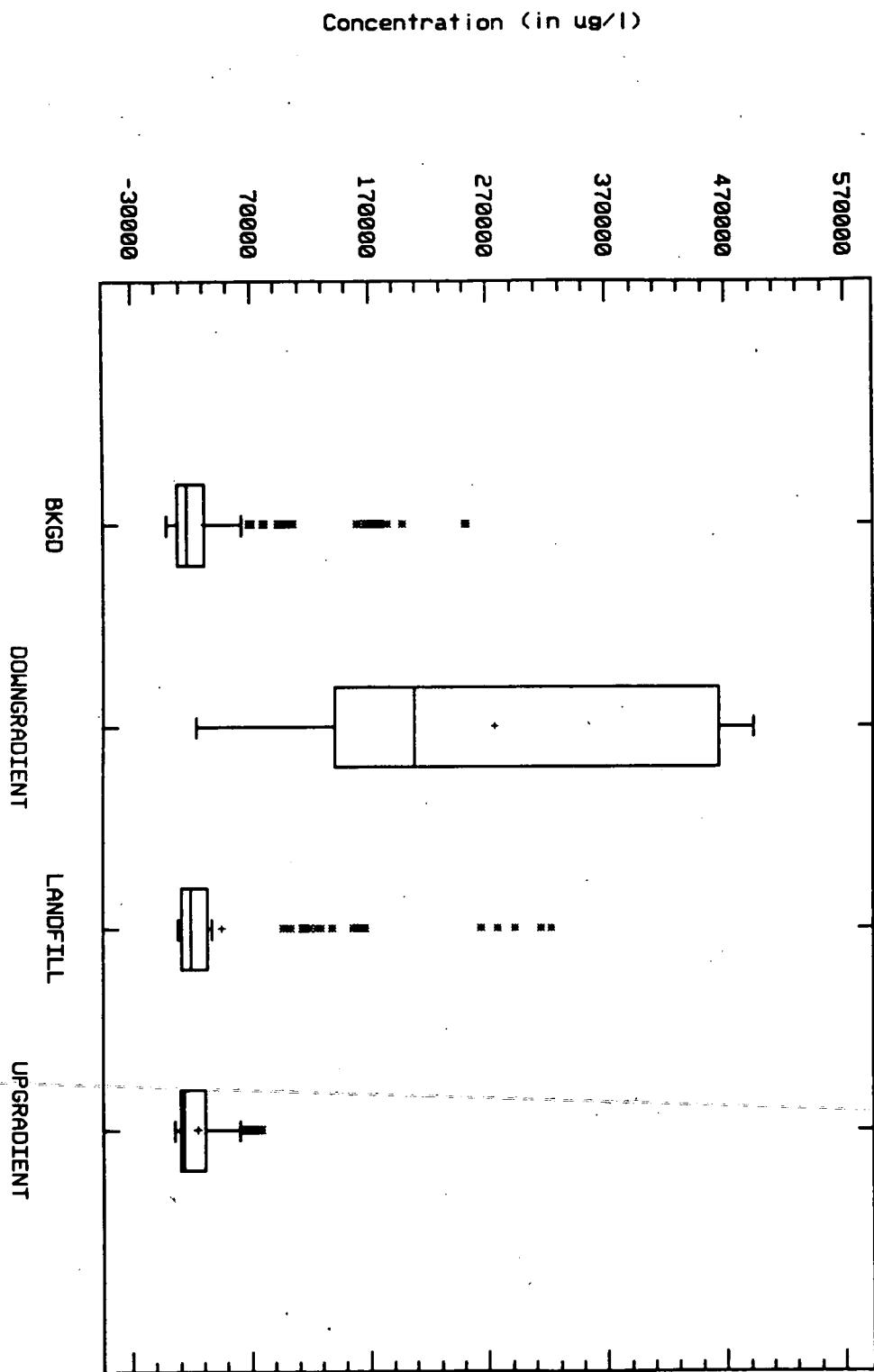
Radium-228 (Dissolved):Groundwater
Background vs. QU7 UHSU



Silicon (Dissolved): Groundwater
Background vs. OUT UHSU

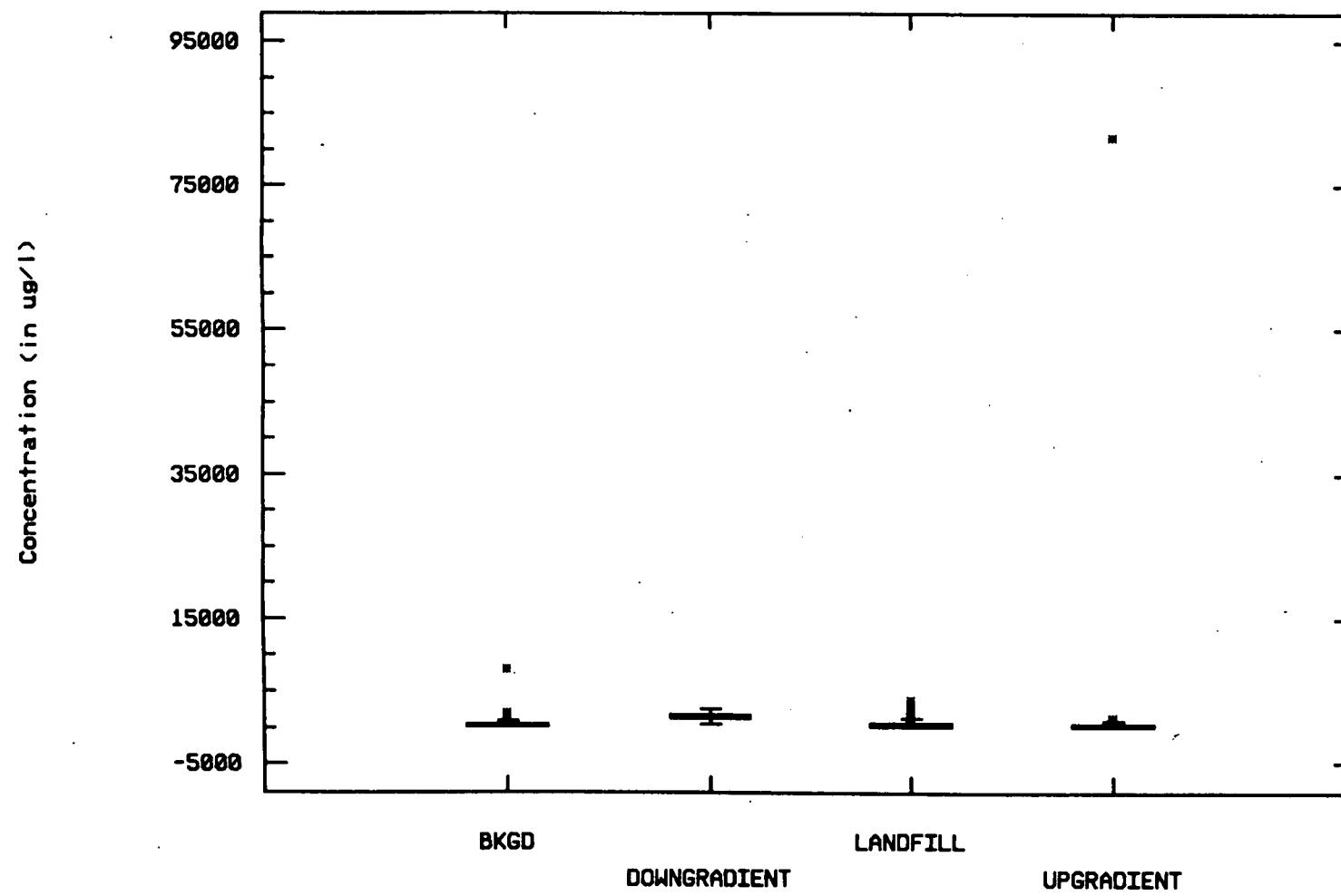


Sodium (Dissolved): Groundwater
Background vs. 017 UHSU

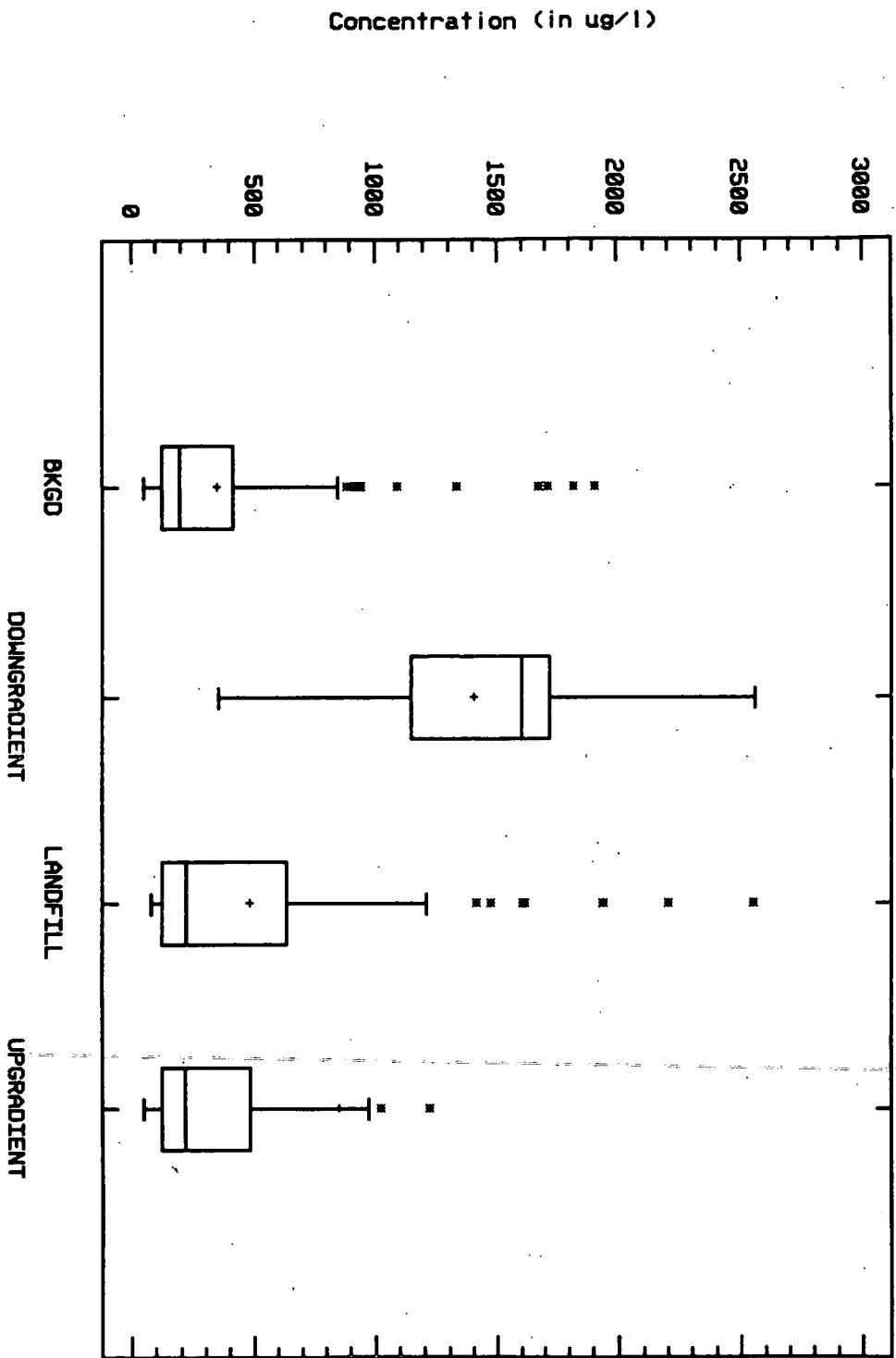


Strontium (Dissolved): Groundwater

Background vs. OU7 UHSU

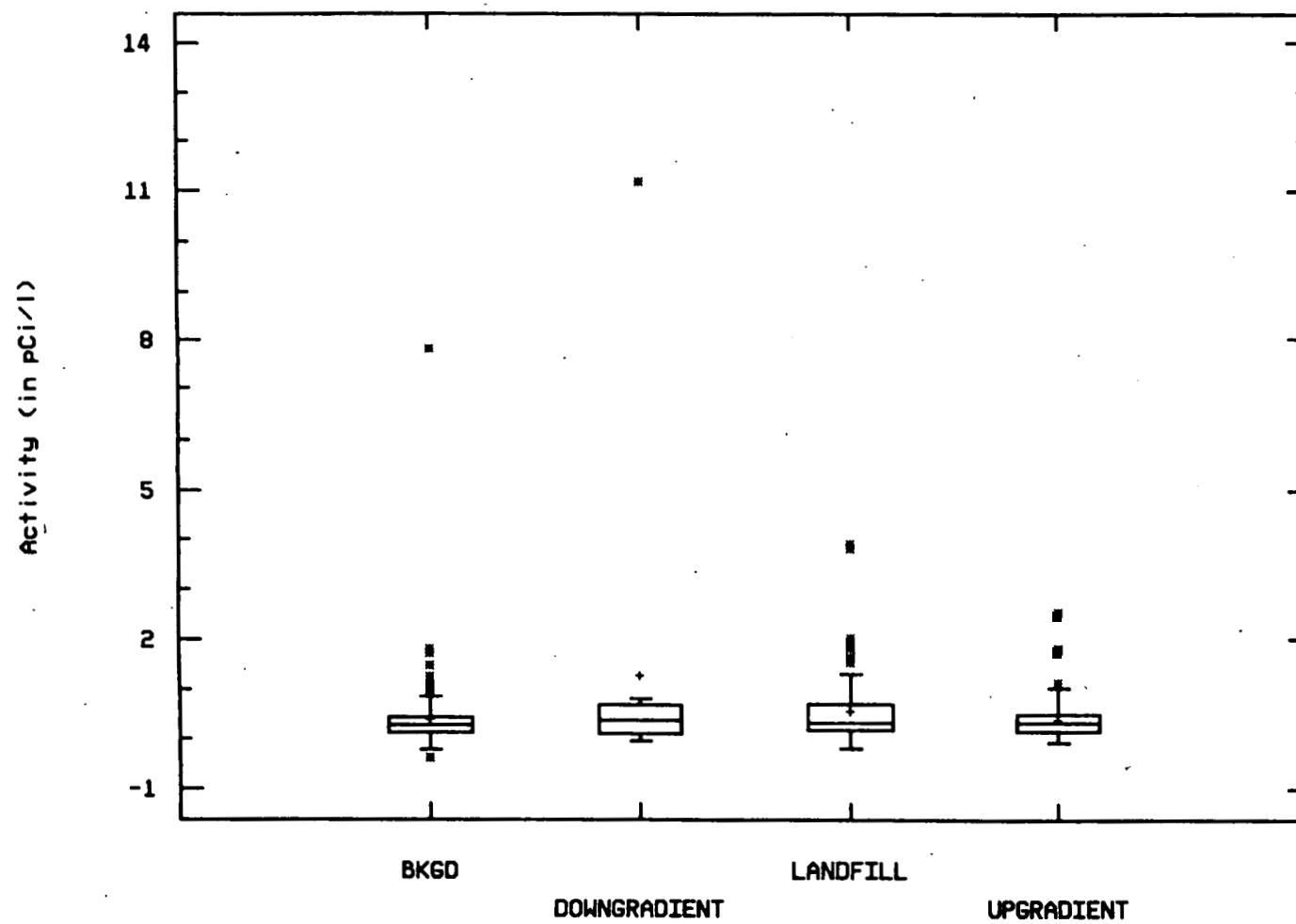


S⁹⁰rontium (Dissolved): Groundwater
Background vs. OUT UHSU



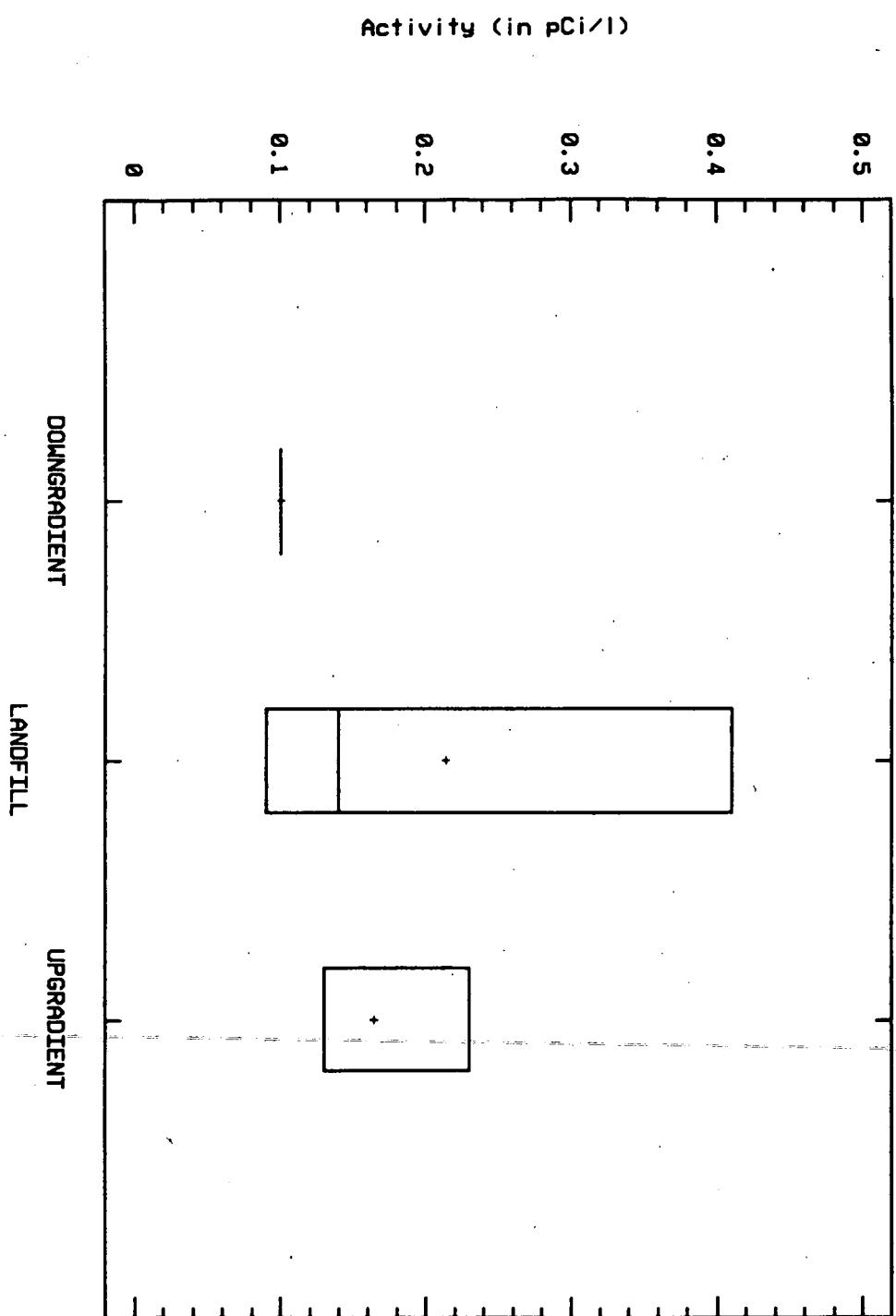
Strontium-89,90 (Dissolved):Groundwater

Background vs. OU7 UHSU



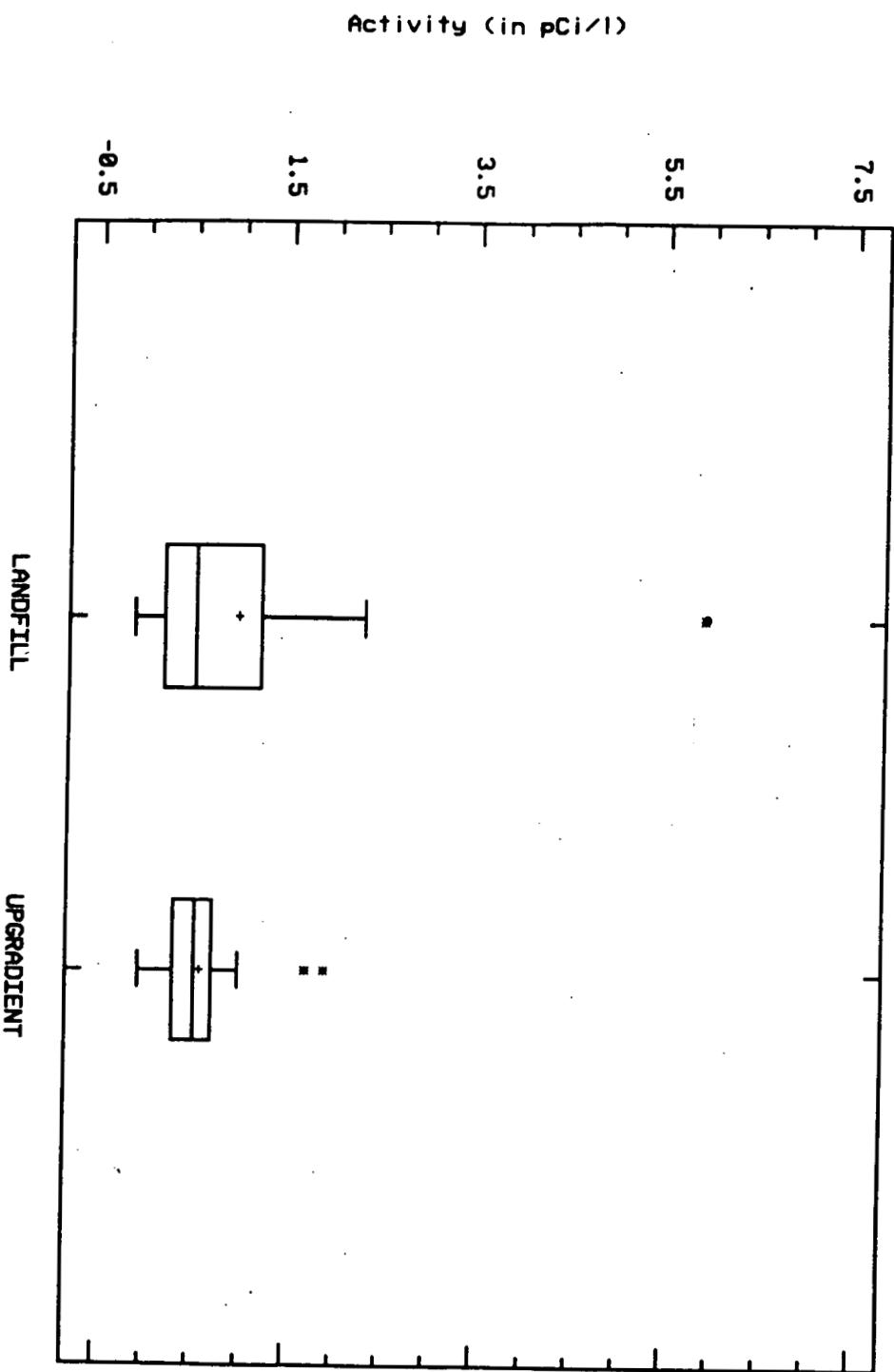
Strontium-90 (Dissolved):Groundwater

Background vs. OUT UHSU

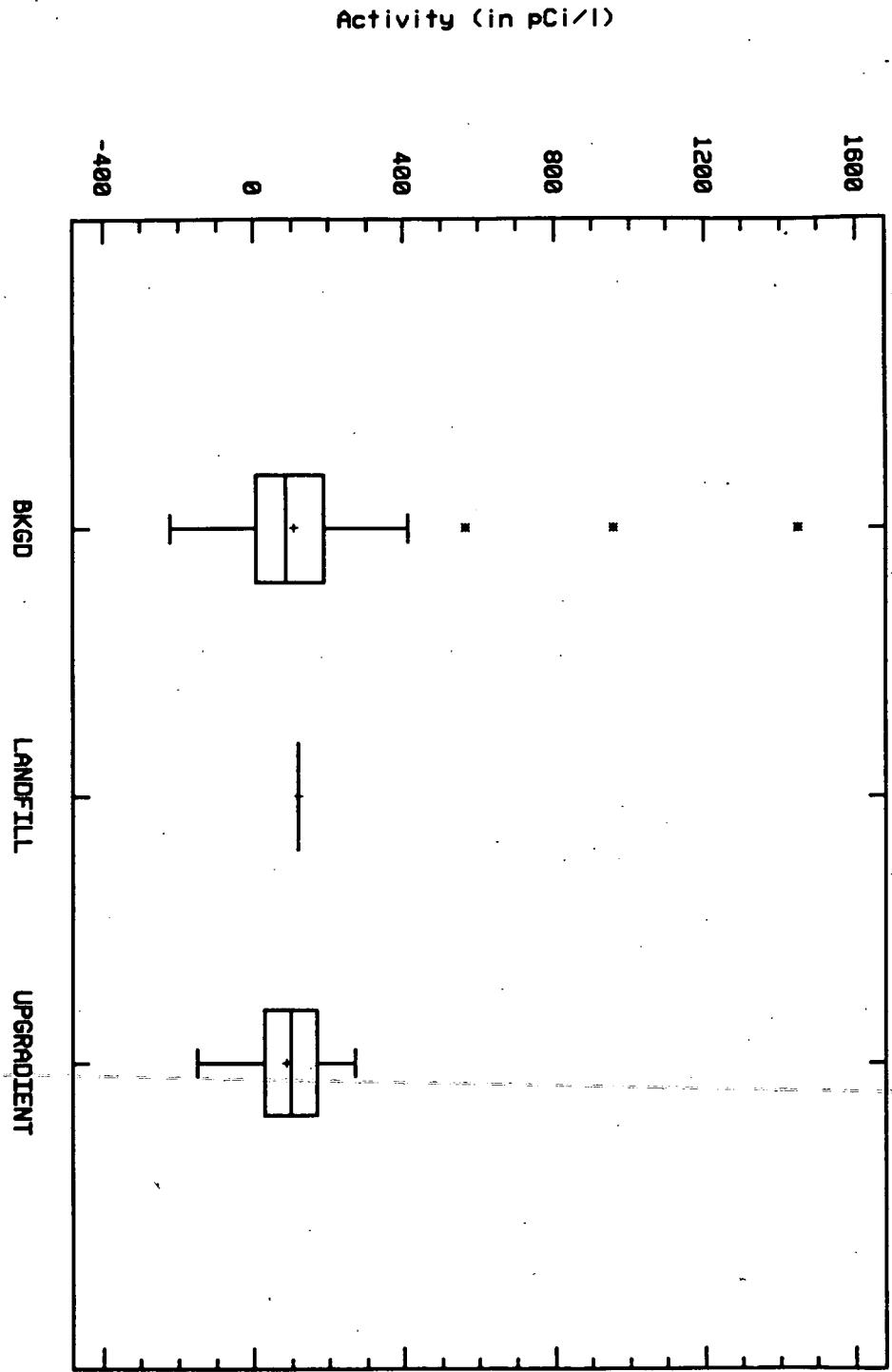


Total Radio cesium(Dissolved):Groundwater

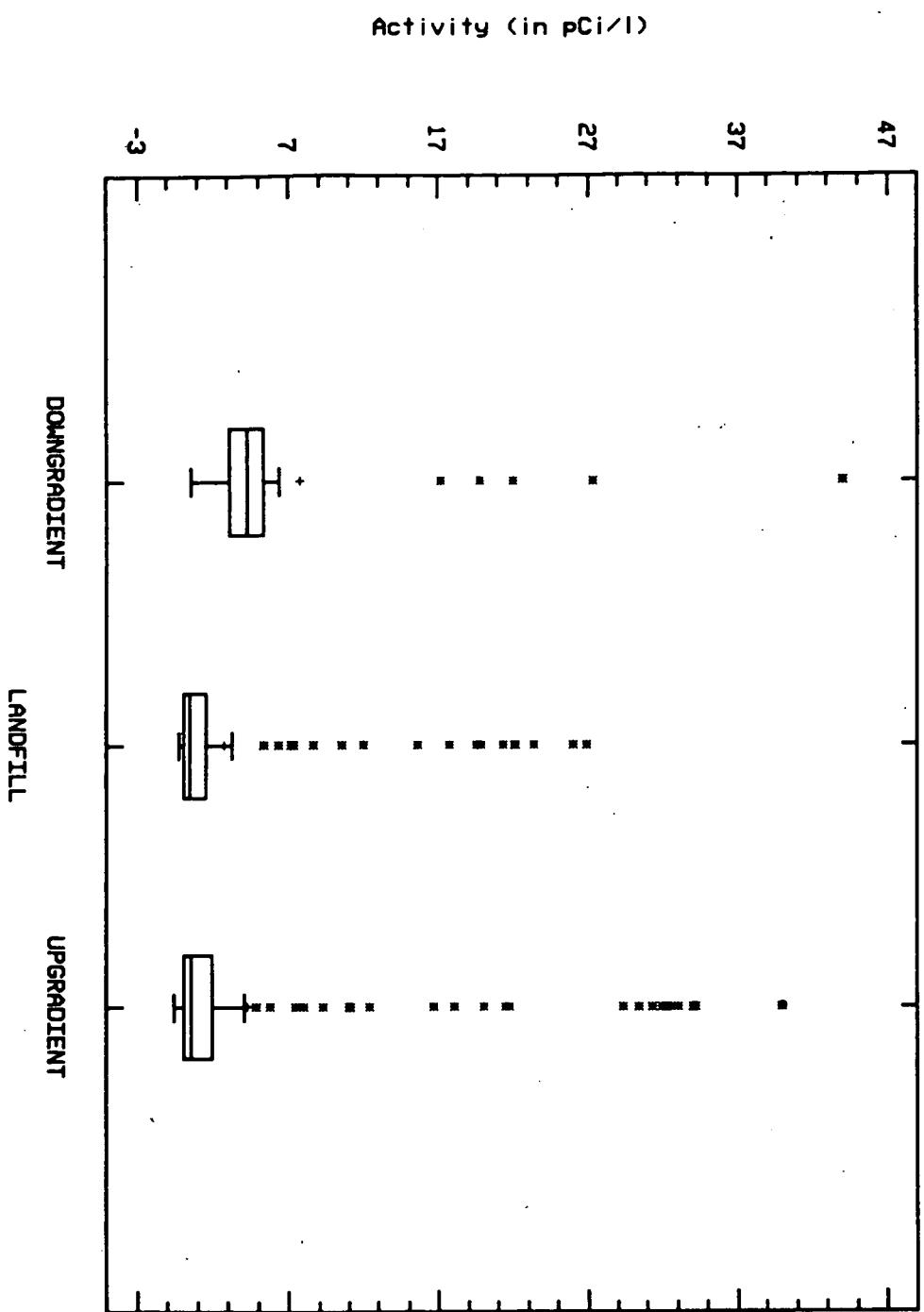
Background vs. 007 UHSU



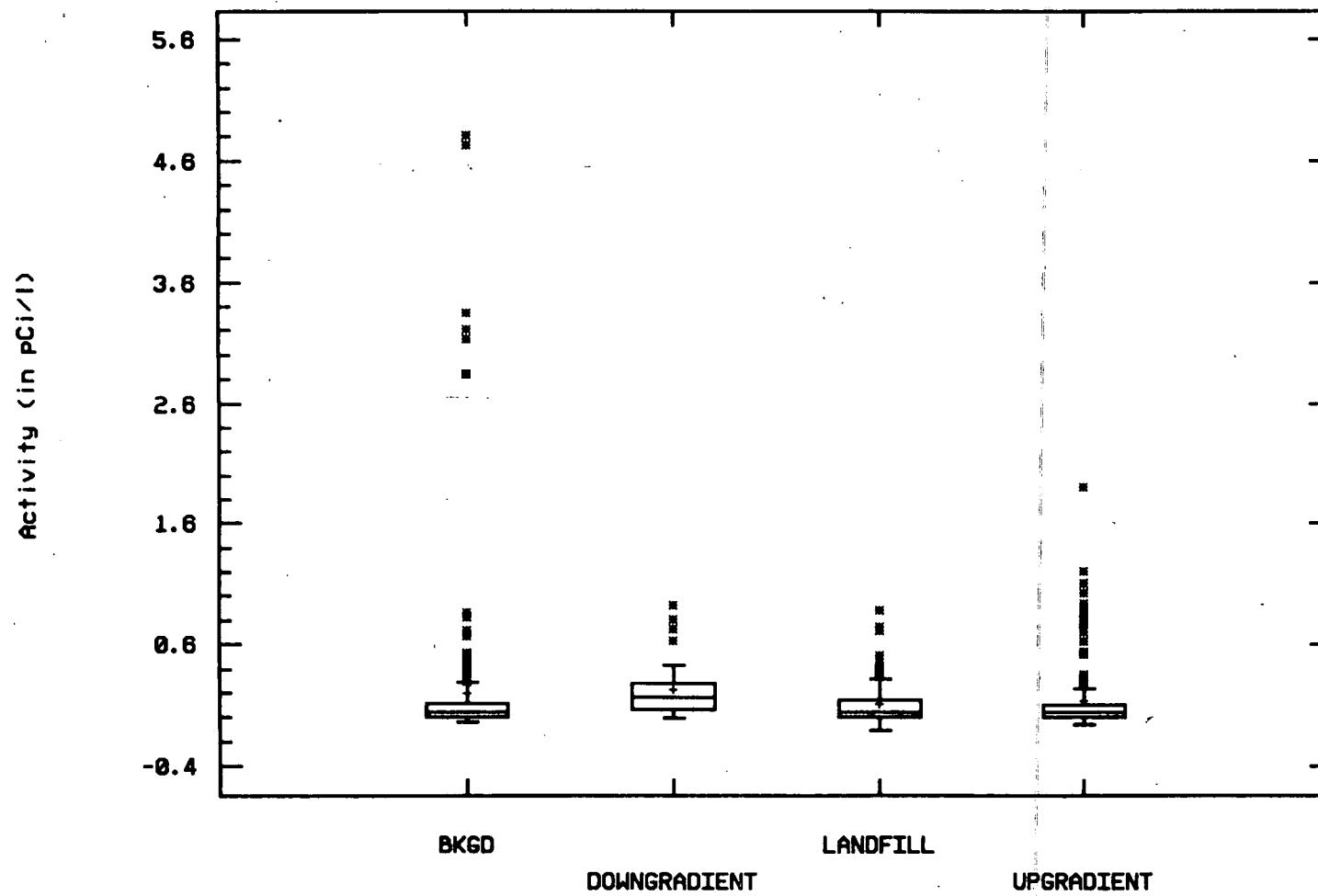
Tritium (Dissolved):Groundwater
Background vs. DU7 UHSU



Uranium-233, -234 (Dissolved) : Groundwater
Background vs. 017 UHSU

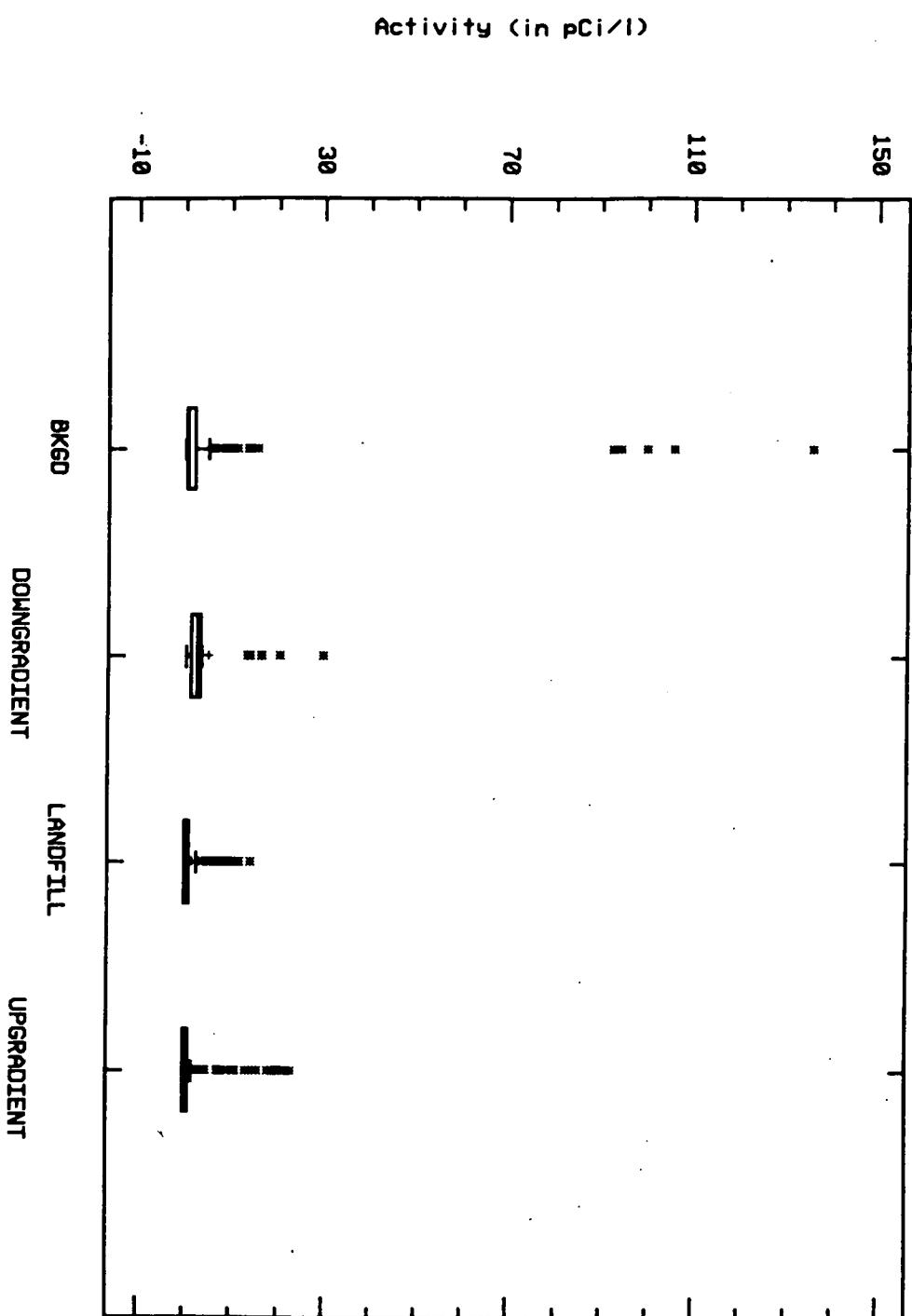


Uranium-235 (Dissolved):Groundwater
Background vs. 0U7 UHSU

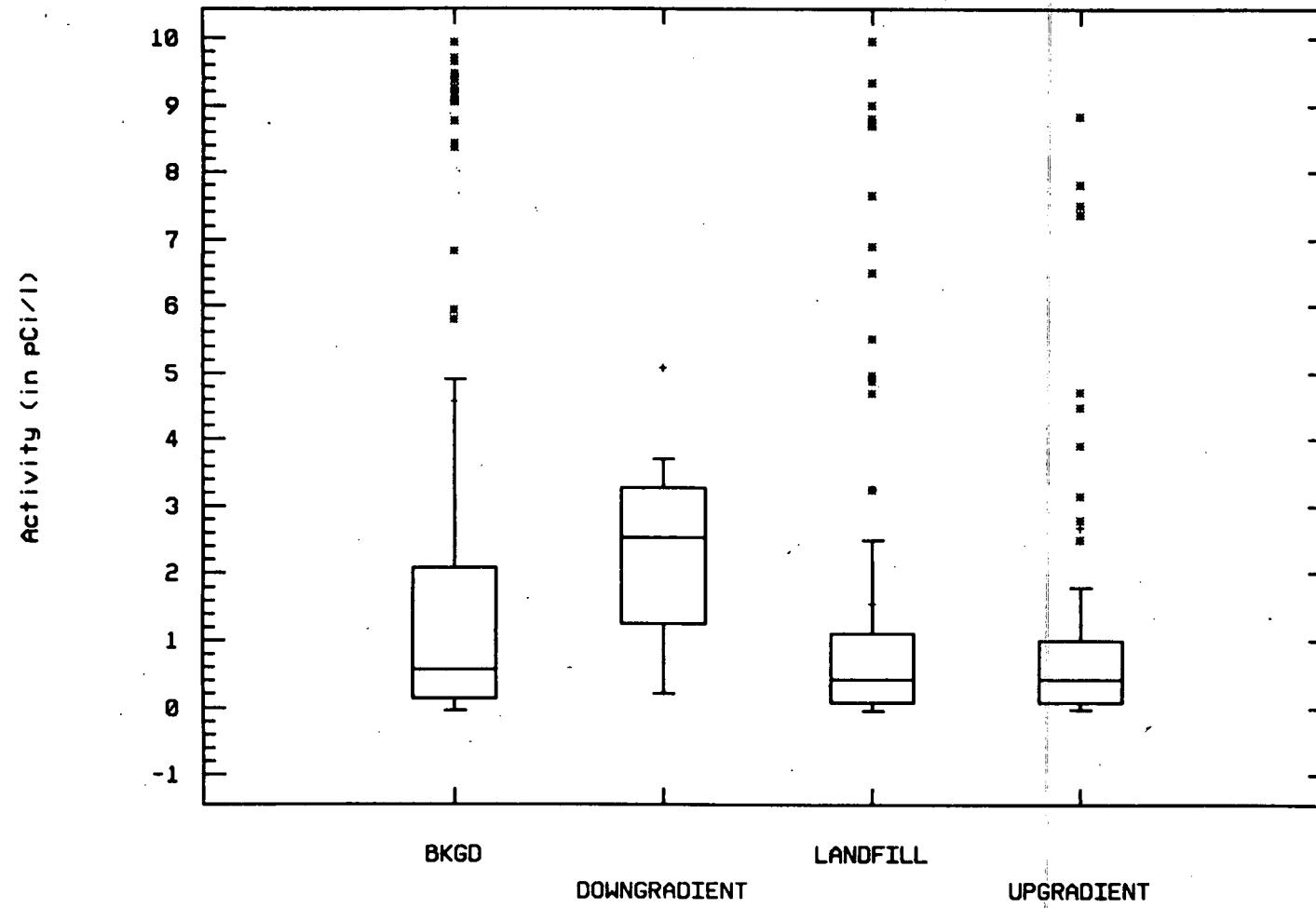


Uranium-238 (Dissolved) : Groundwater

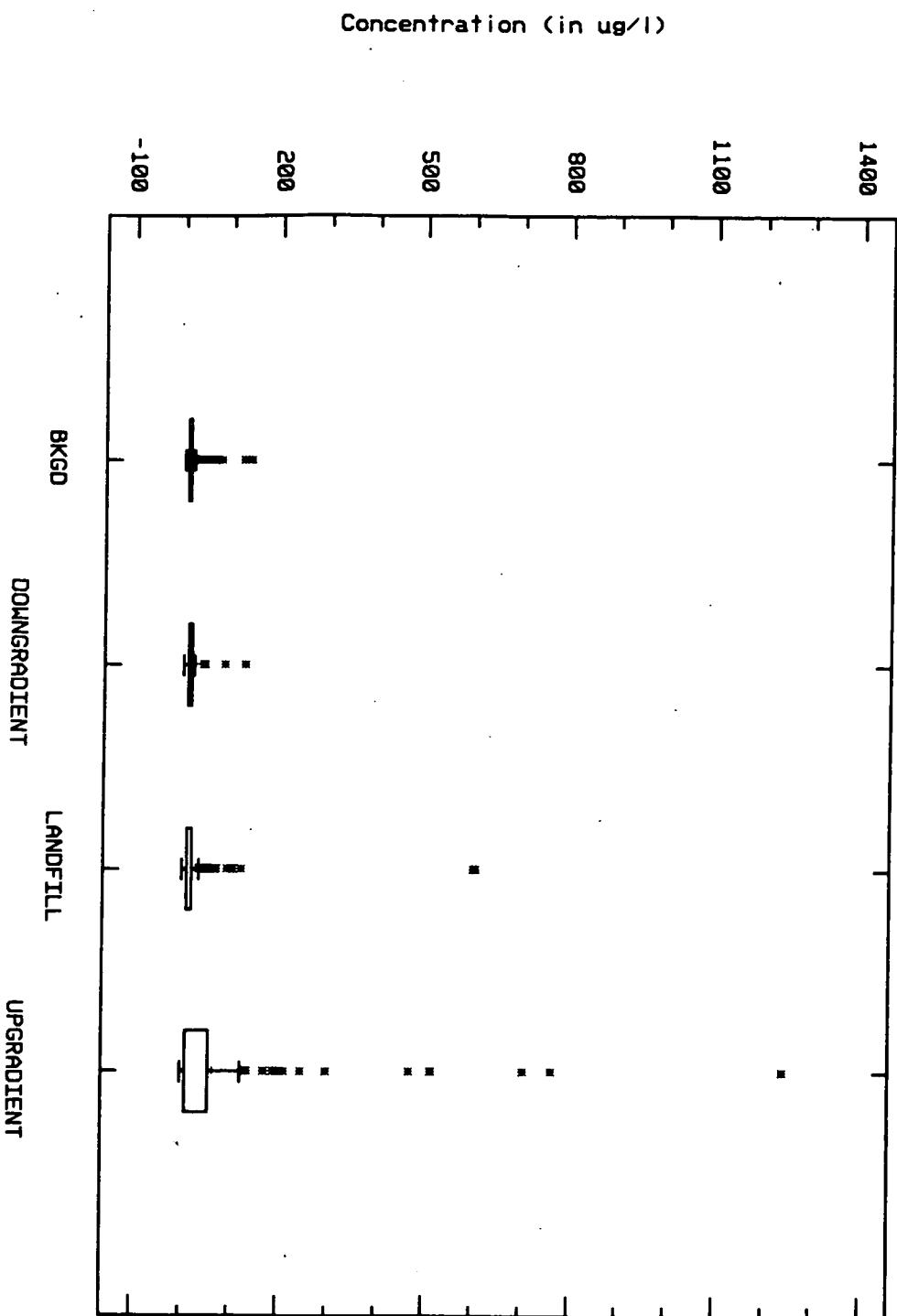
Background vs. 017 UHSU



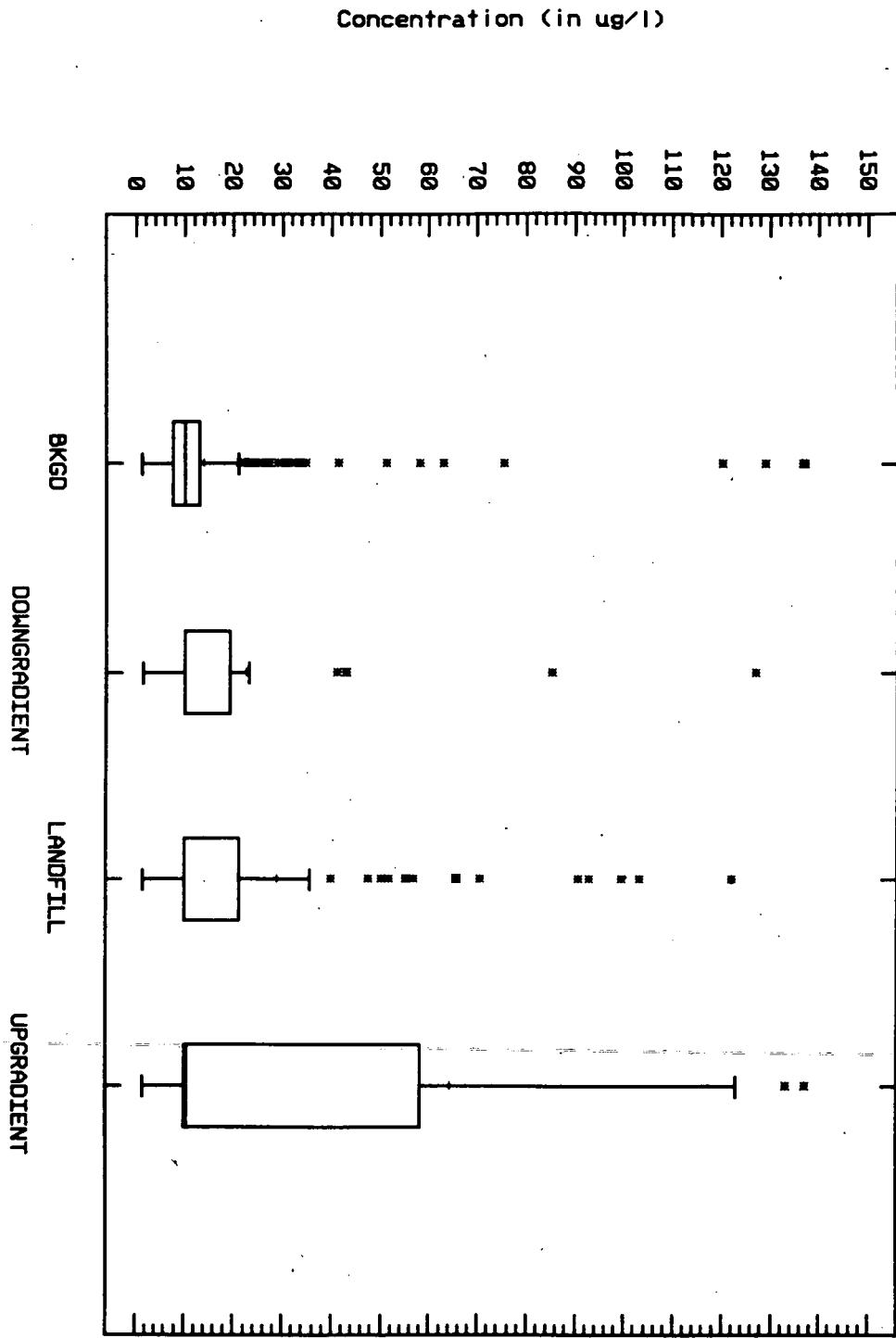
Uranium-238 (Dissolved):Groundwater
Background vs. OU7 UHSU



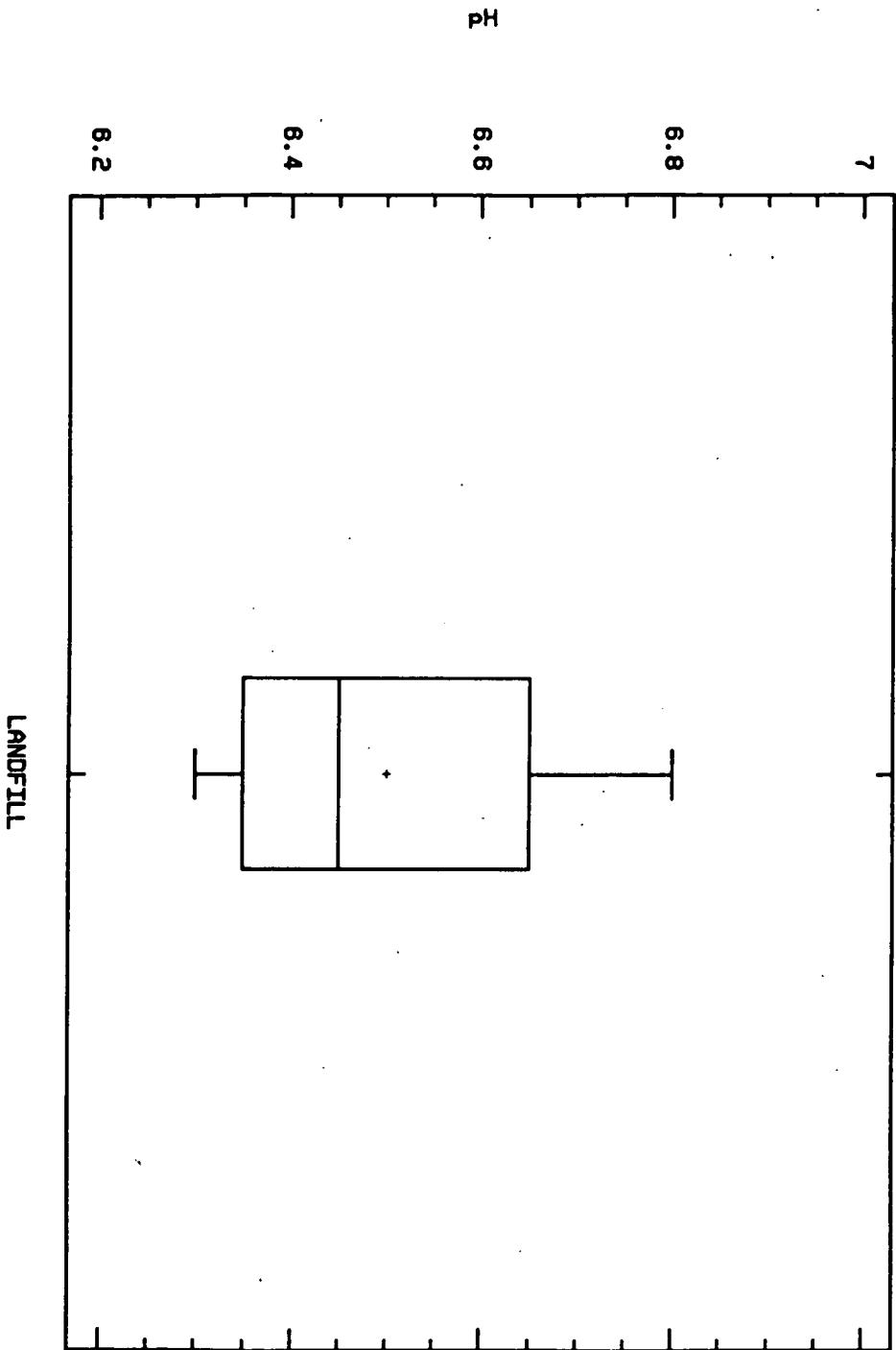
Zinc (Dissolved): Groundwater
Background vs. OU7 UHSU



Zinc (Dissolved): Groundwater
Background vs. 017 UHSU



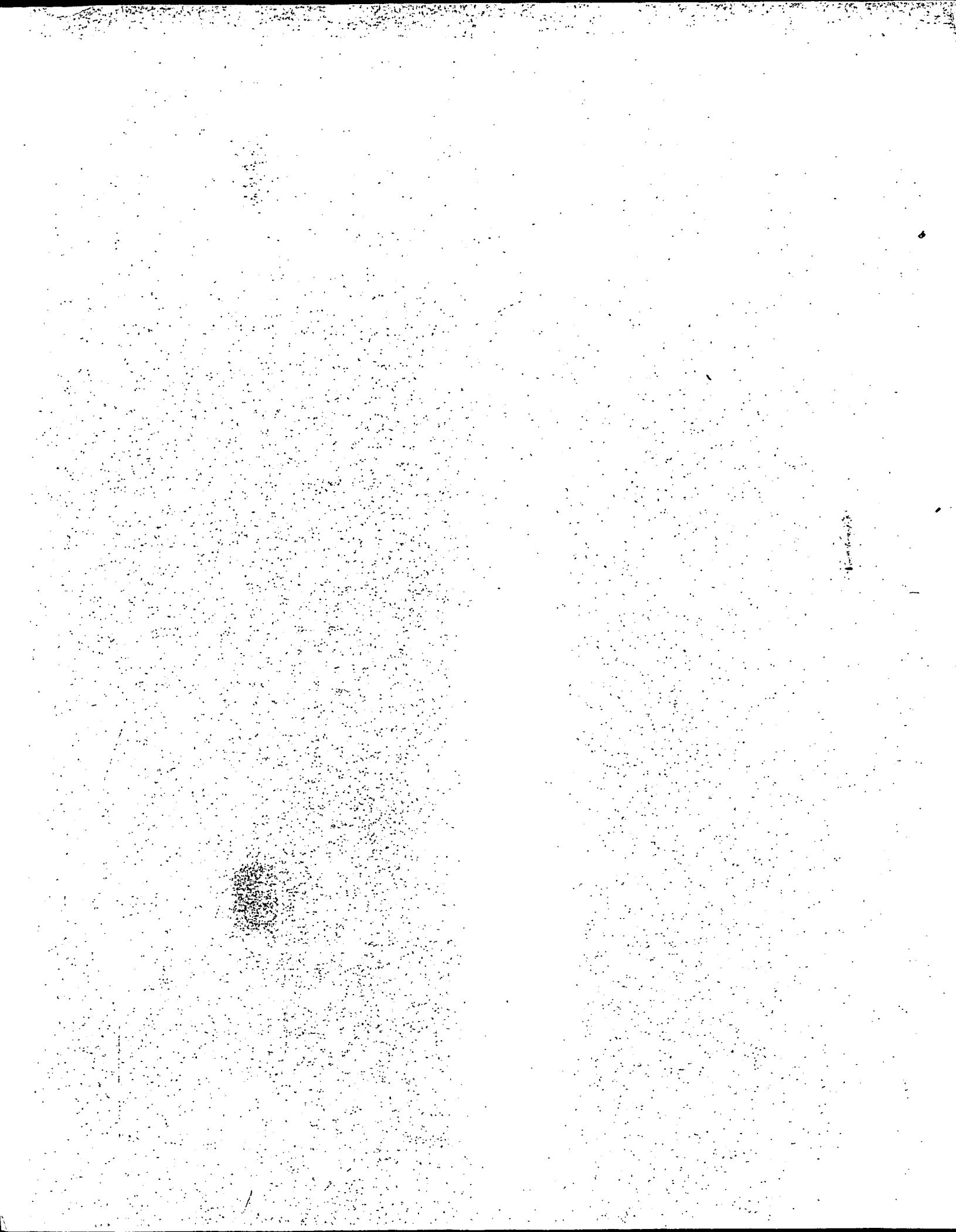
pH (Dissolved): Groundwater
Background vs. OU7 UHSU



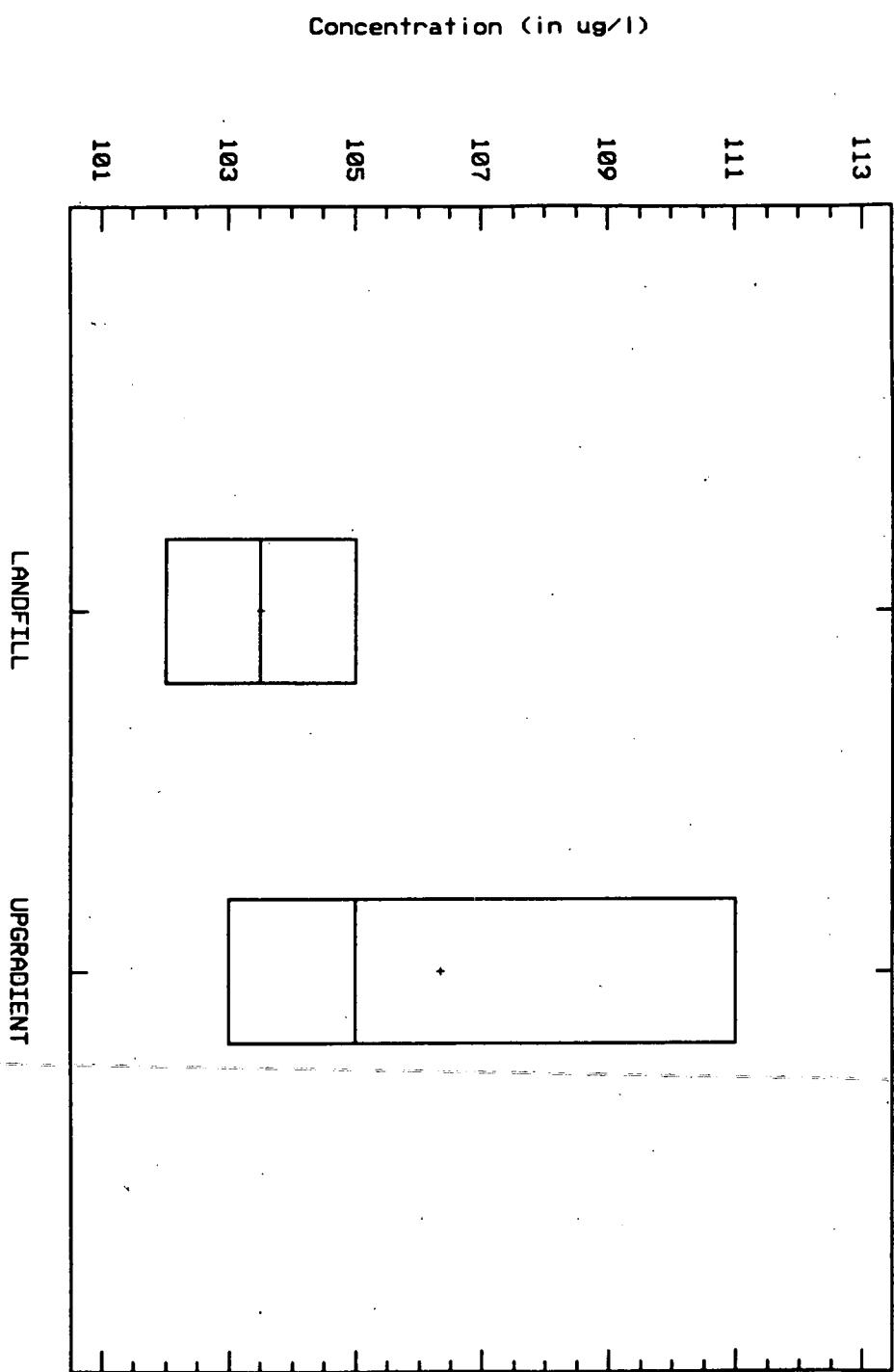
Groundwater

(Total)

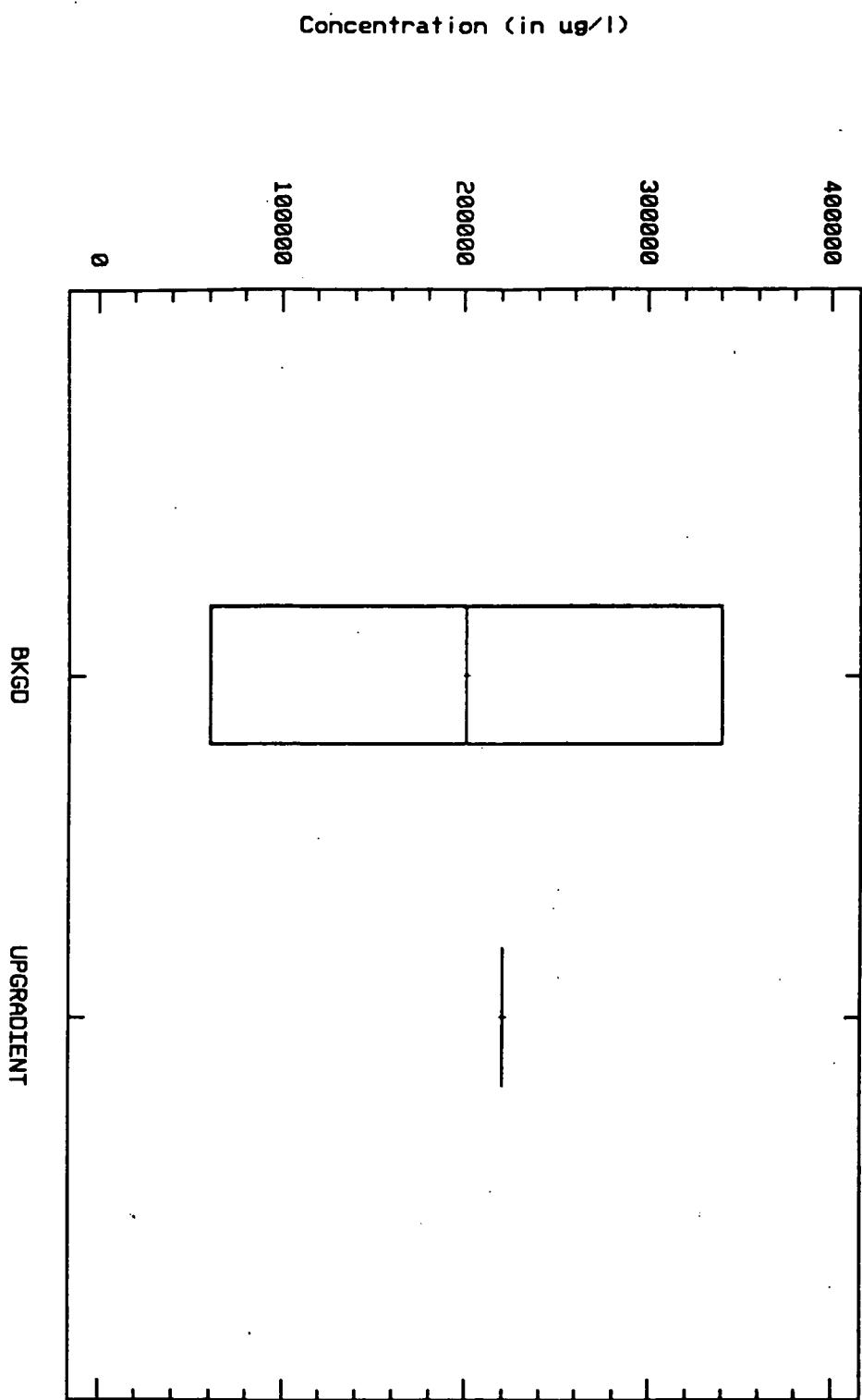
Background vs. OU 7 UHSU



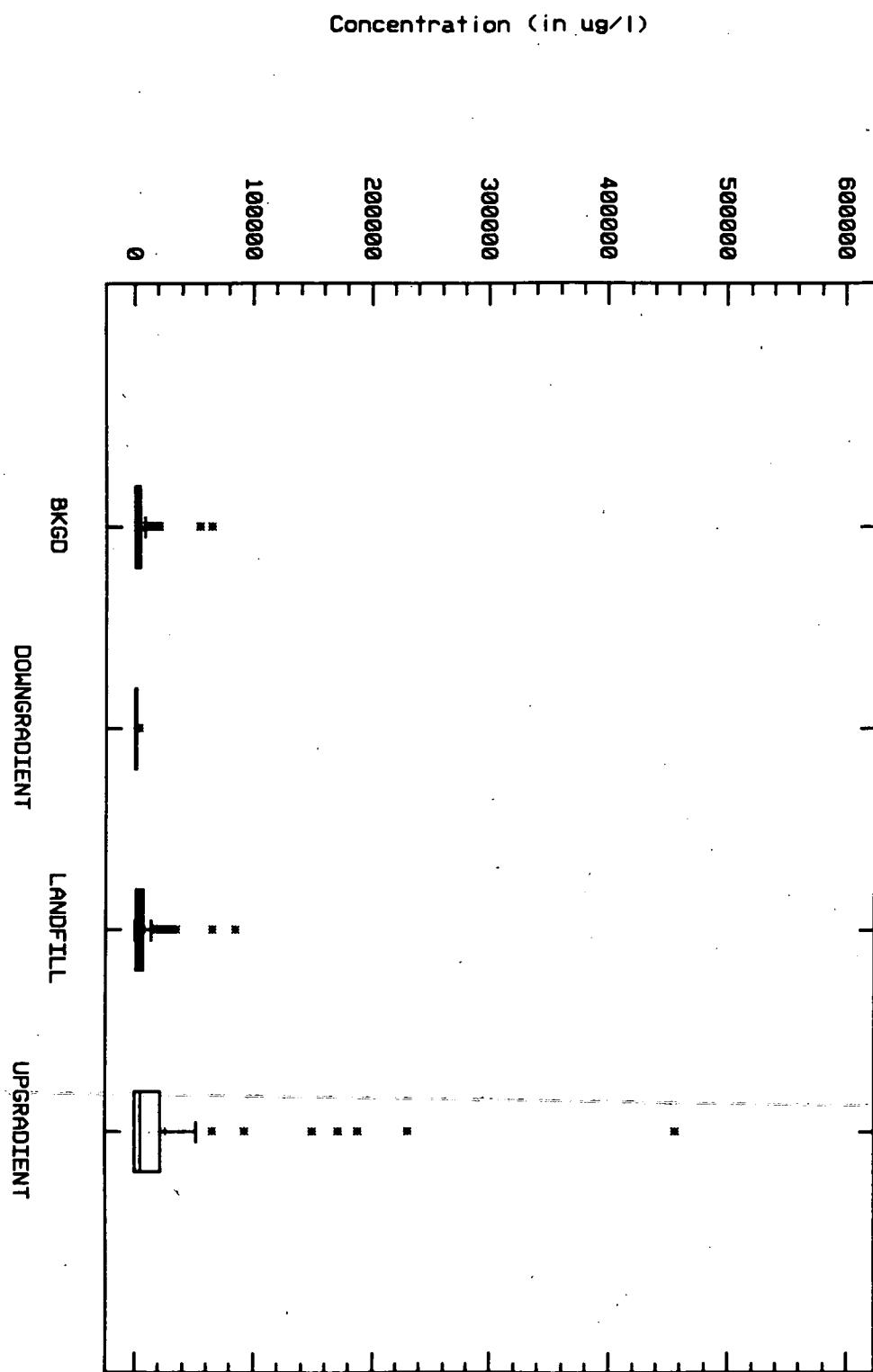
1,2 Dichloroethane (Total): Groundwater
Background vs. OUT UHSU



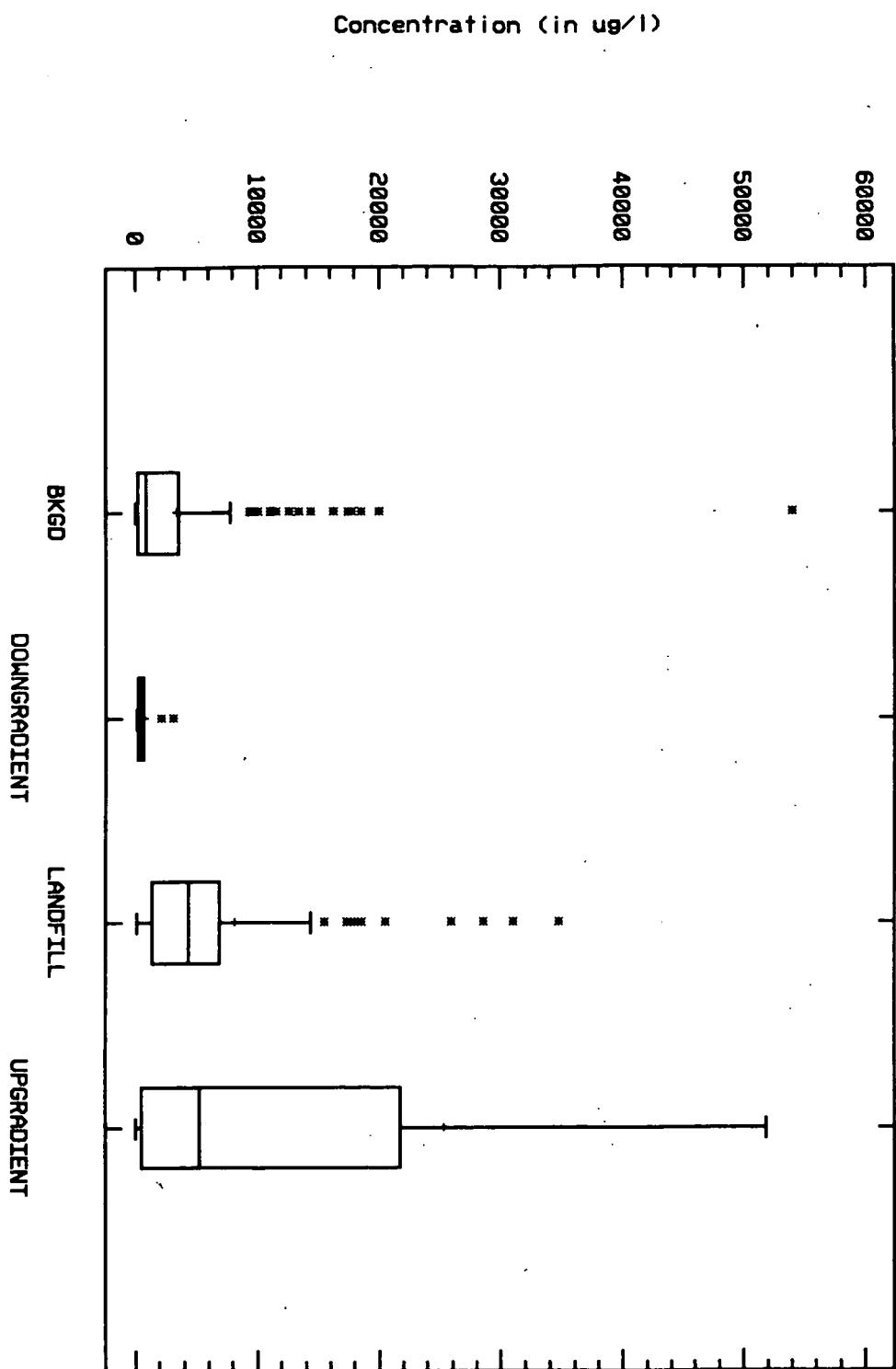
Alkalinity as CaCO₃: Groundwater
Background vs. OUT UHSU



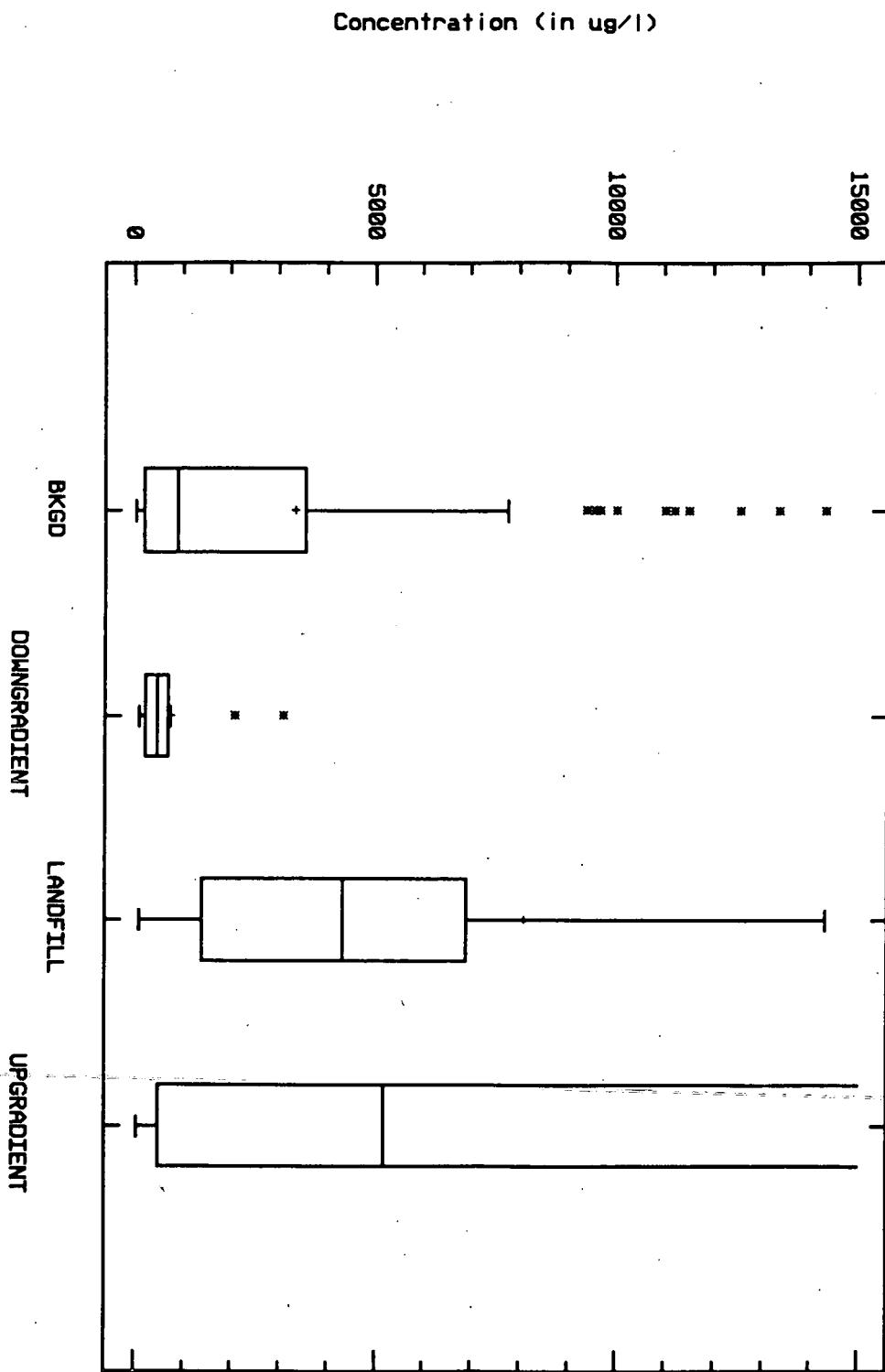
Aluminum (Total): Groundwater
Background vs. 0U7 UHSU



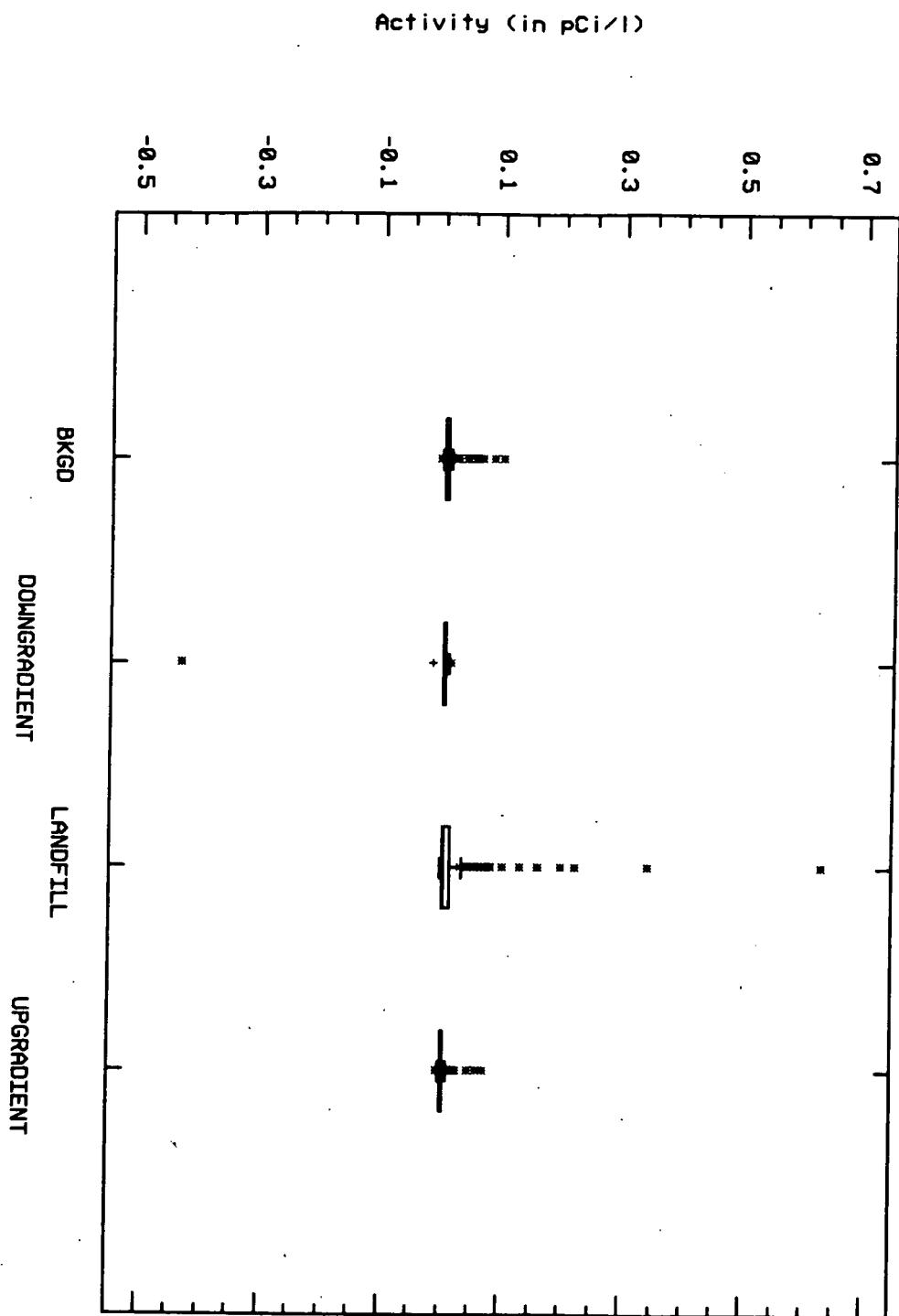
Aluminum (Total): Groundwater
Background vs. 0U7 UHSU



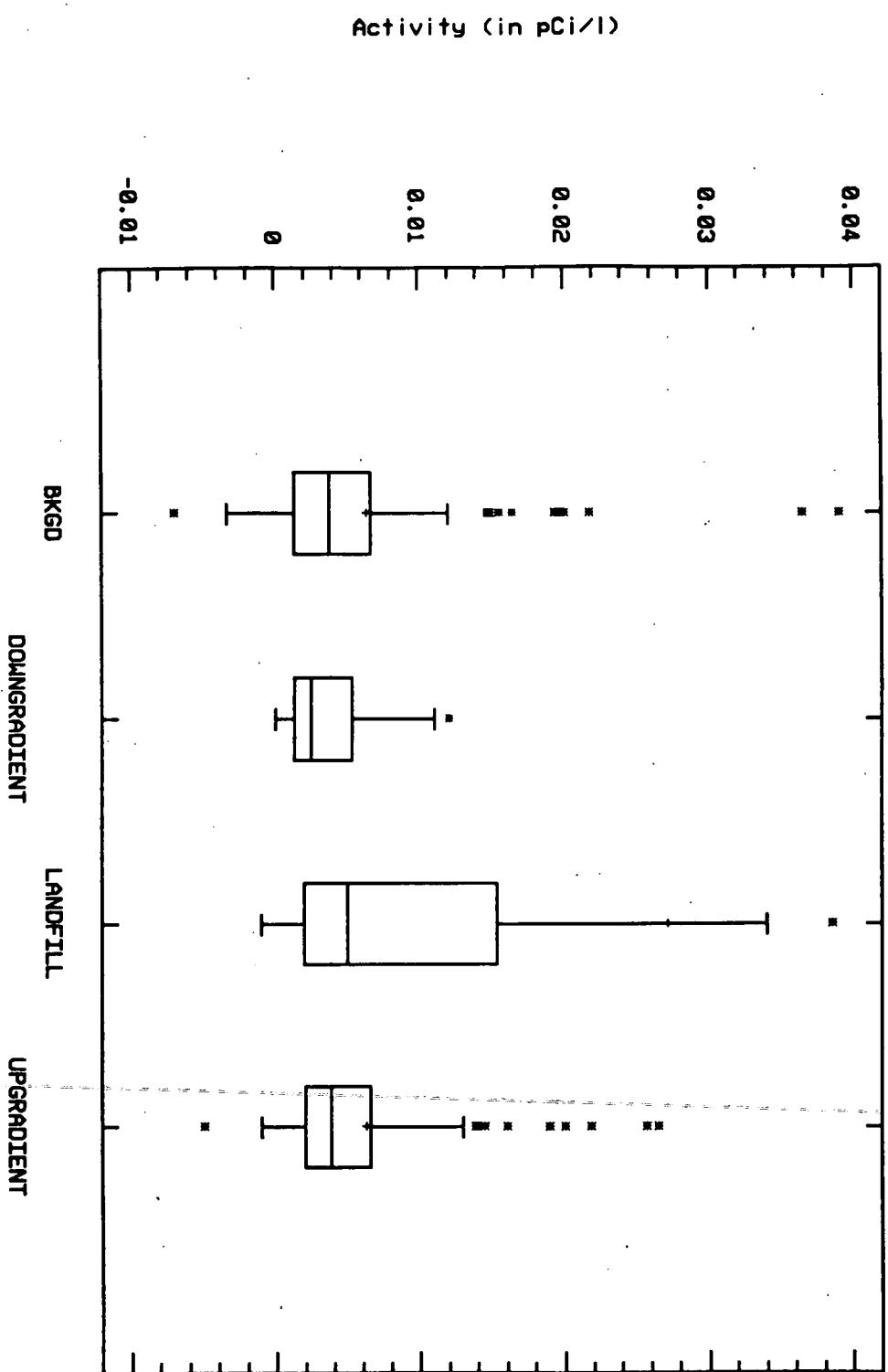
Aluminum (Total): Groundwater
Background vs. OU7 UHSU



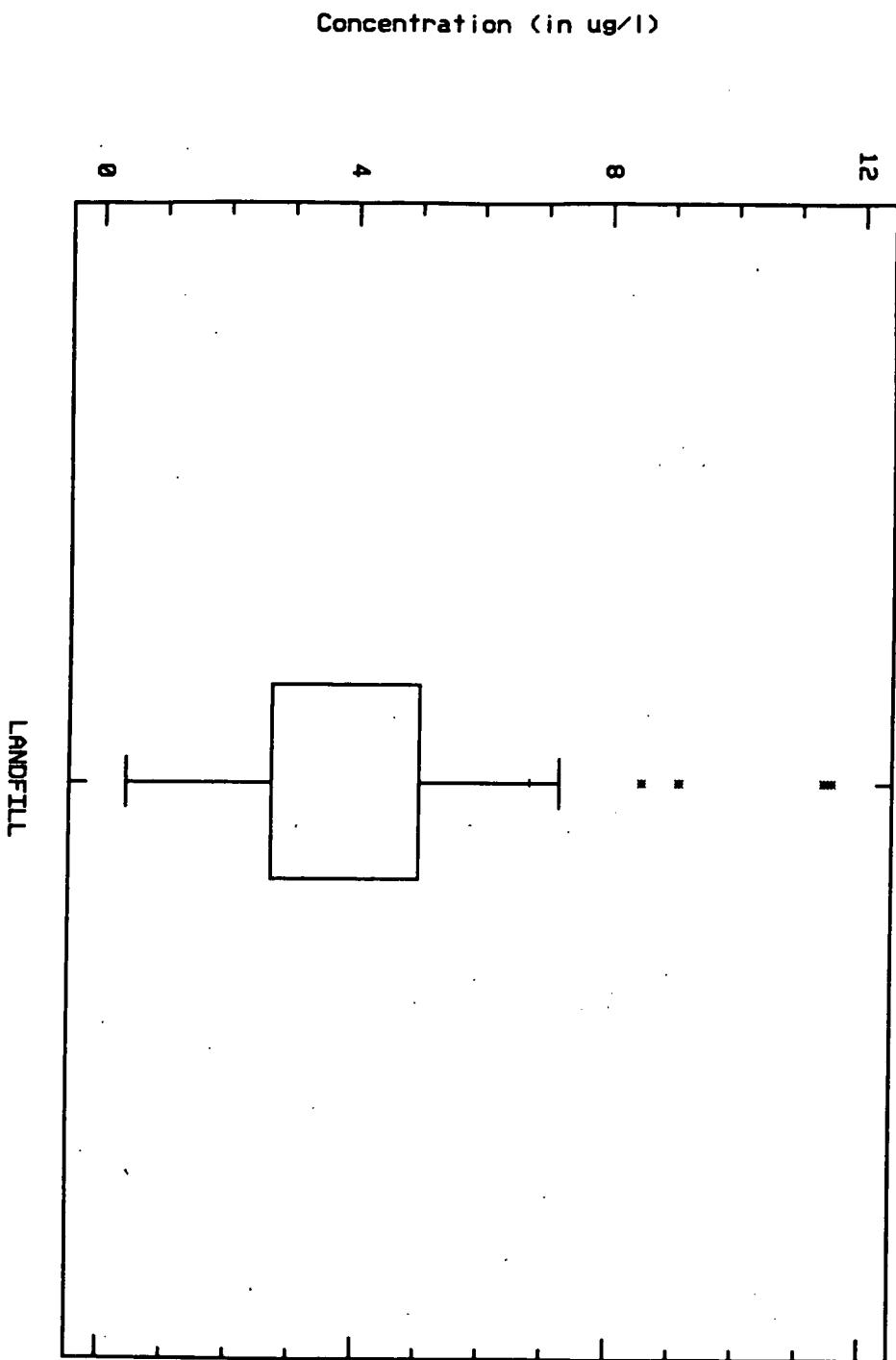
Americium-241: Groundwater
Background vs. OUT UHSU



Americium-241 (Total): Groundwater
Background vs. OUT UHSU

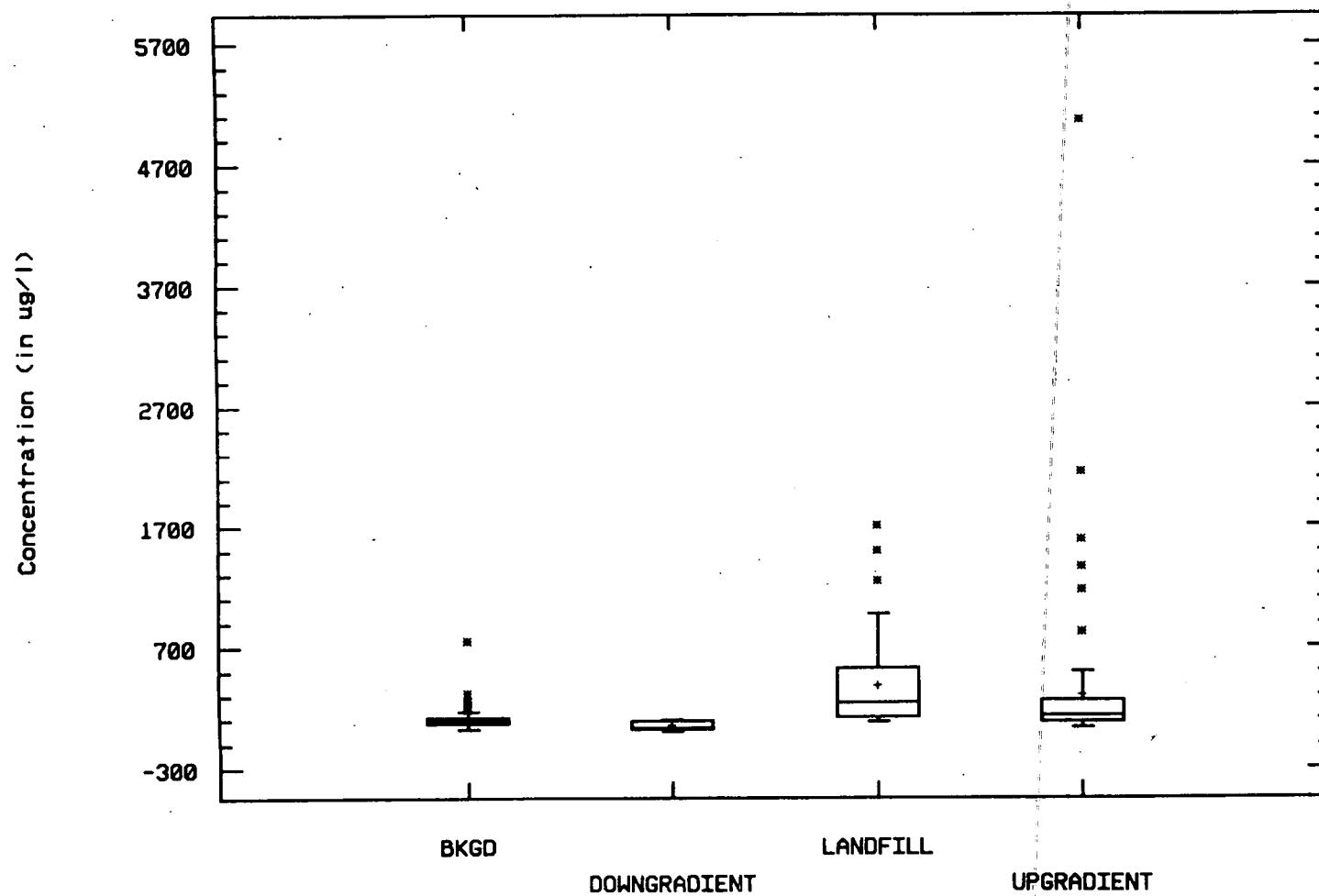


Arsenic (Total): Groundwater
Background vs. DU7 UHSU

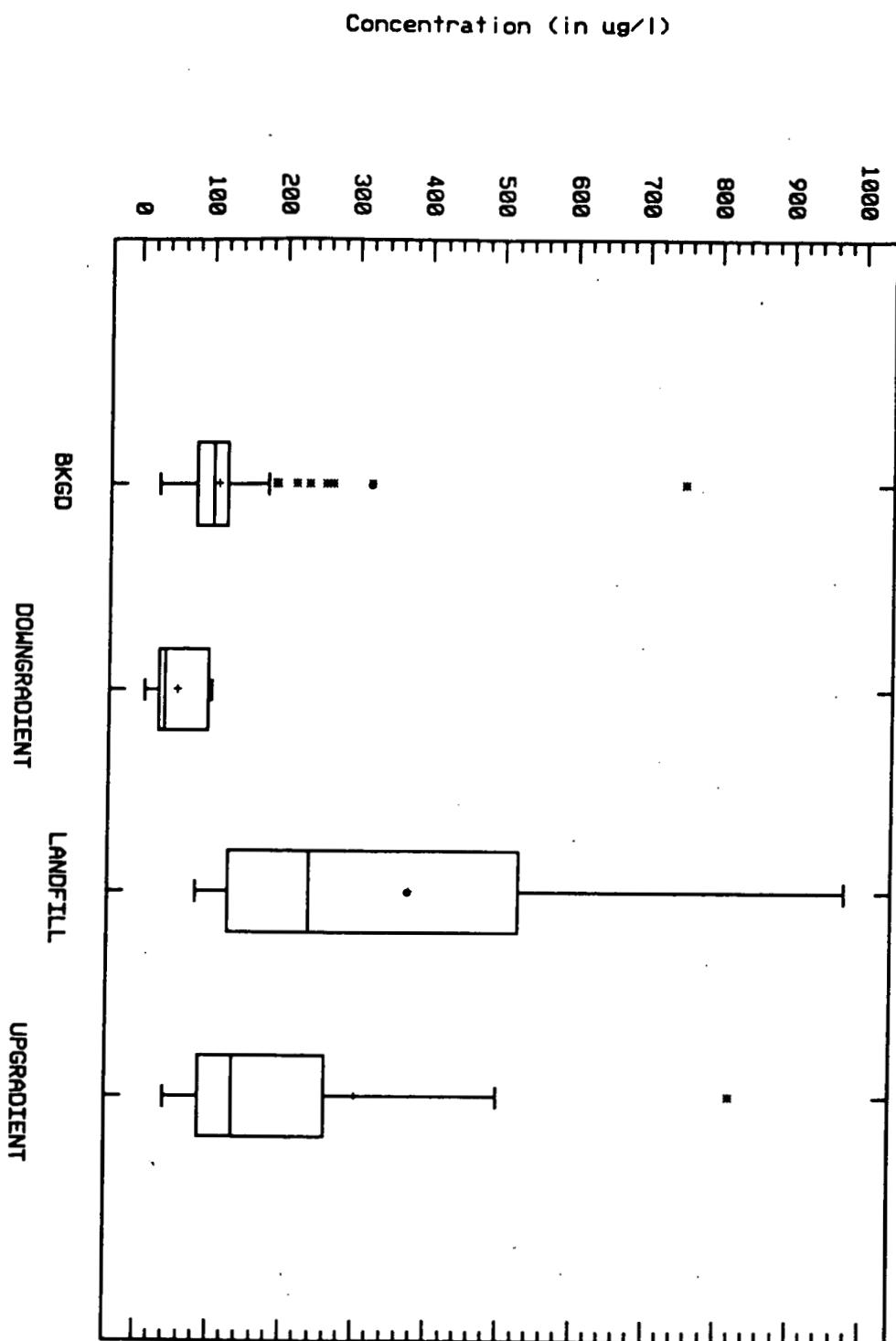


Barium (Total): Groundwater

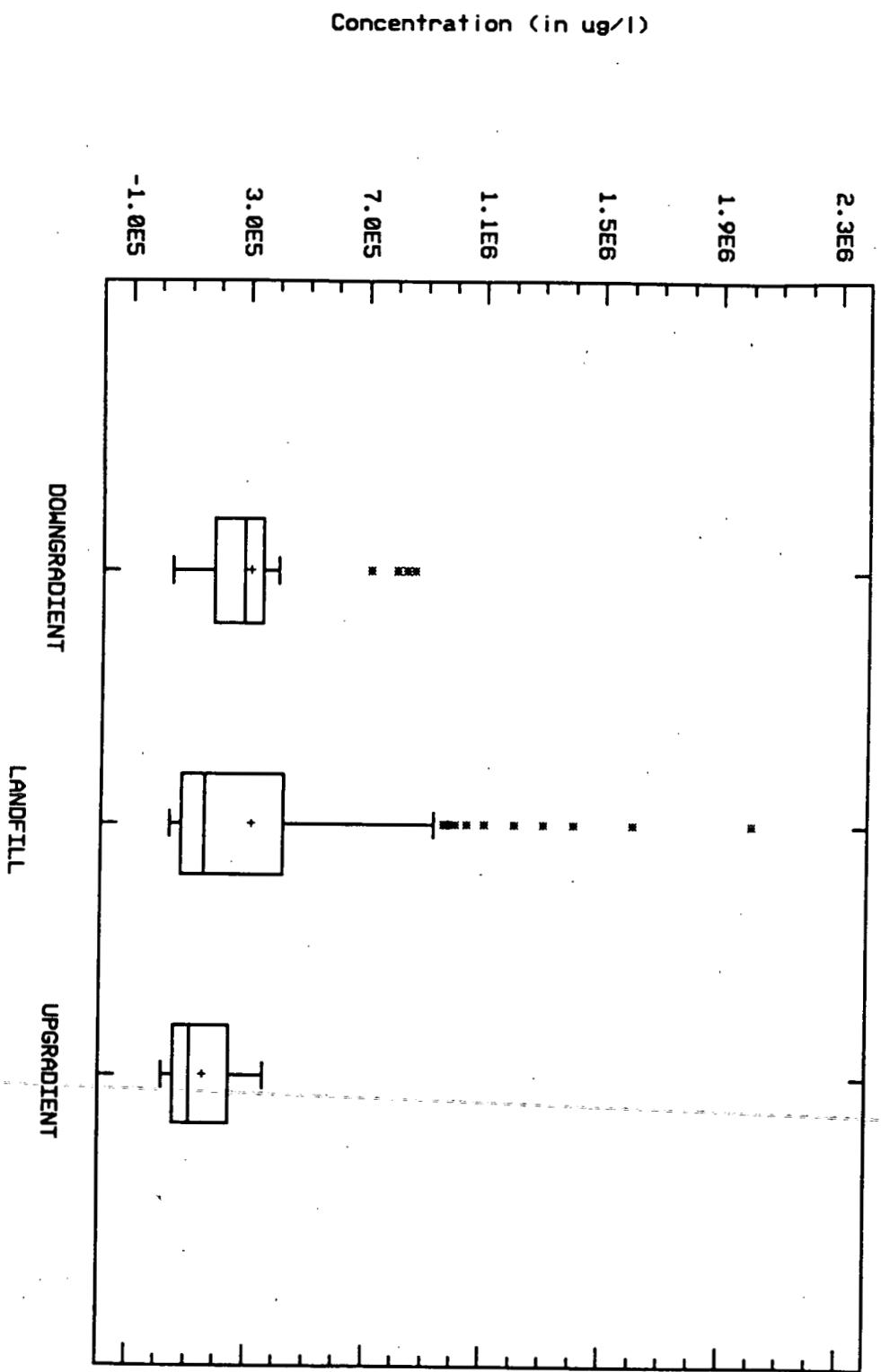
Background vs. OU7 UHSU



Barium (Total): Groundwater
Background vs. OUT UHSU

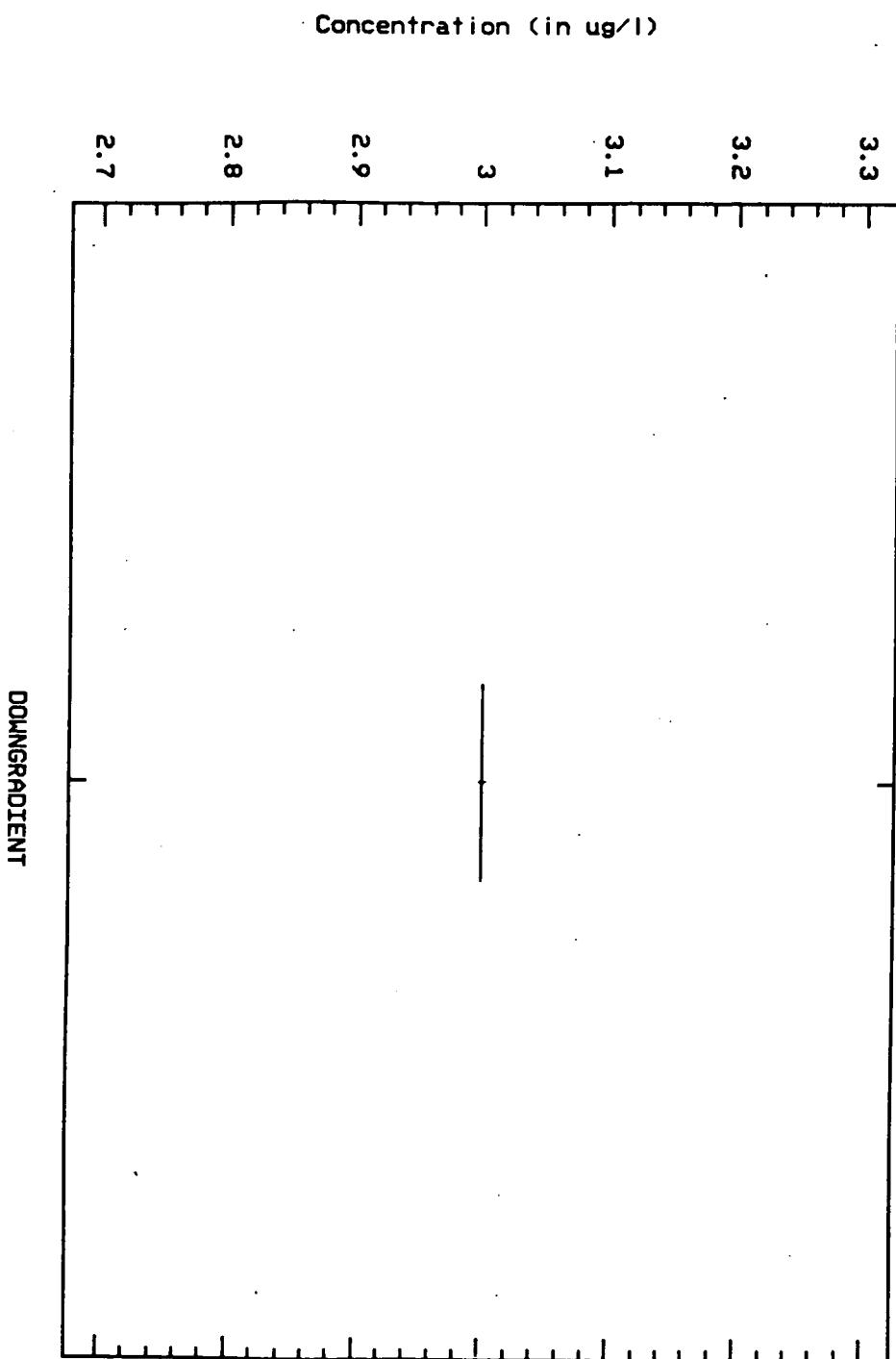


Bicarbonate as CaCO_3 Total: Groundwater
Background vs. OUT UHSU



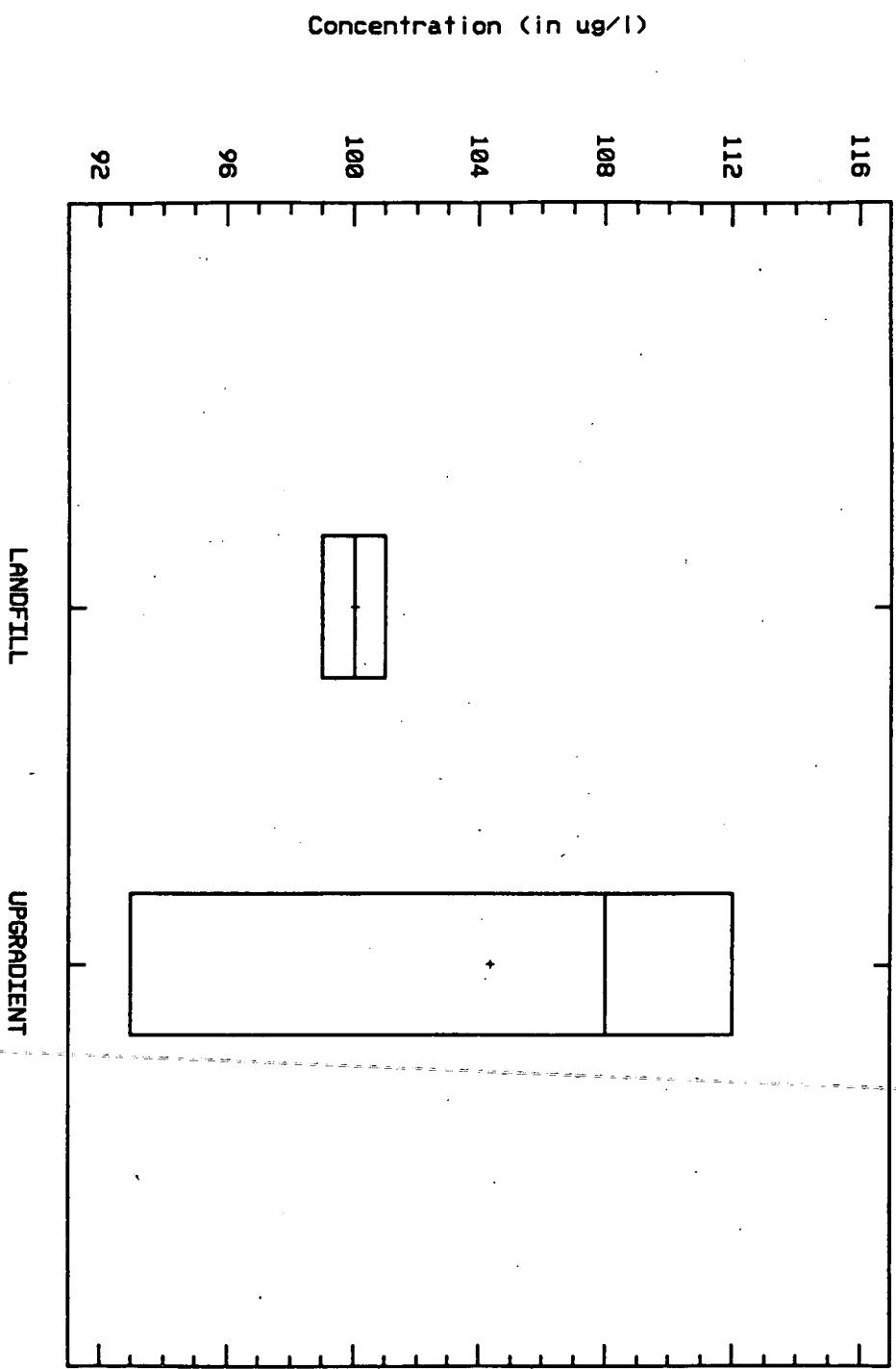
T. Bis(2-ethylhexyl)phthalate:Groundwater

Background vs. 017 UHSU

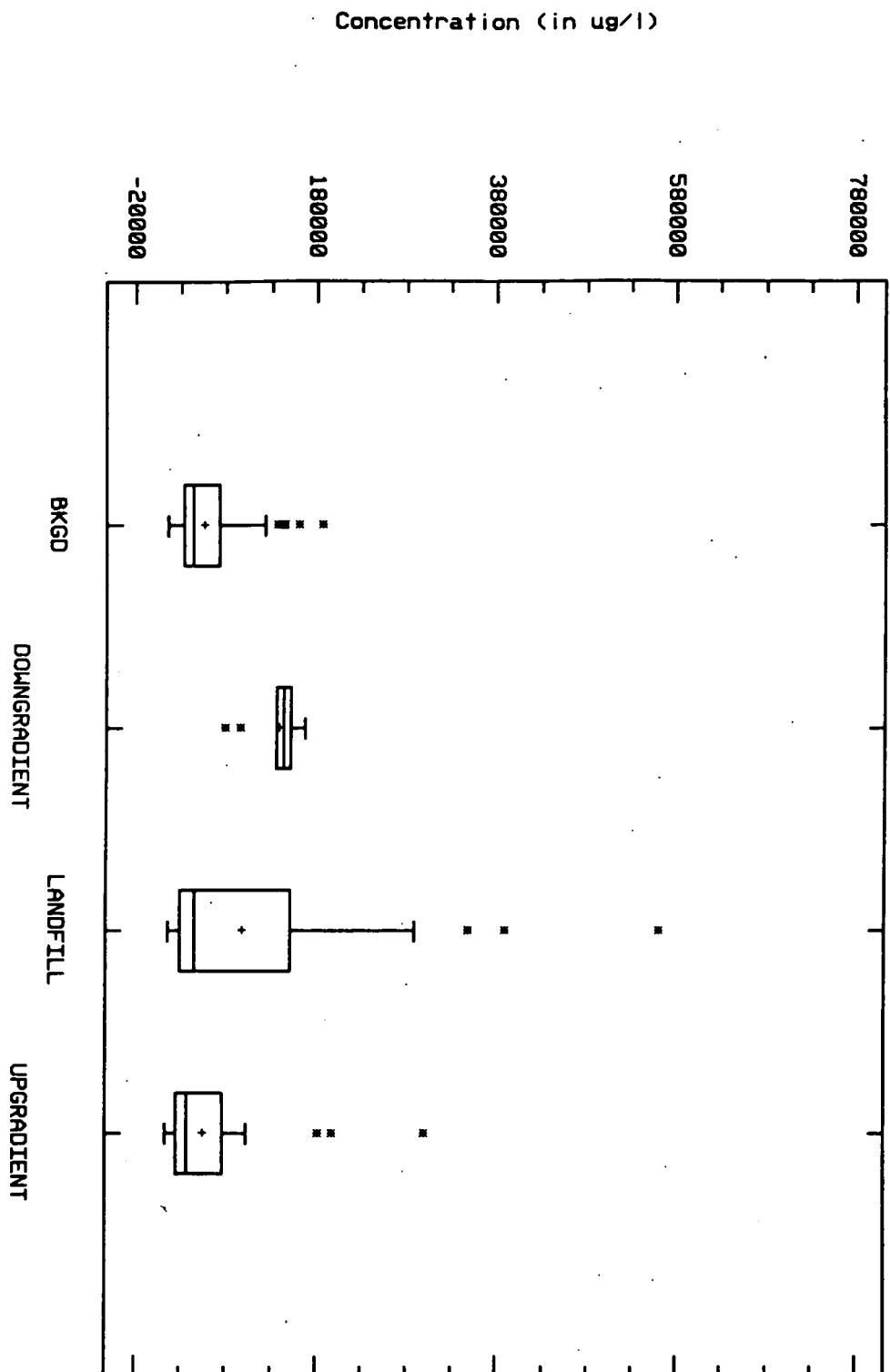


Bromofluorobenzene (Total): Groundwater

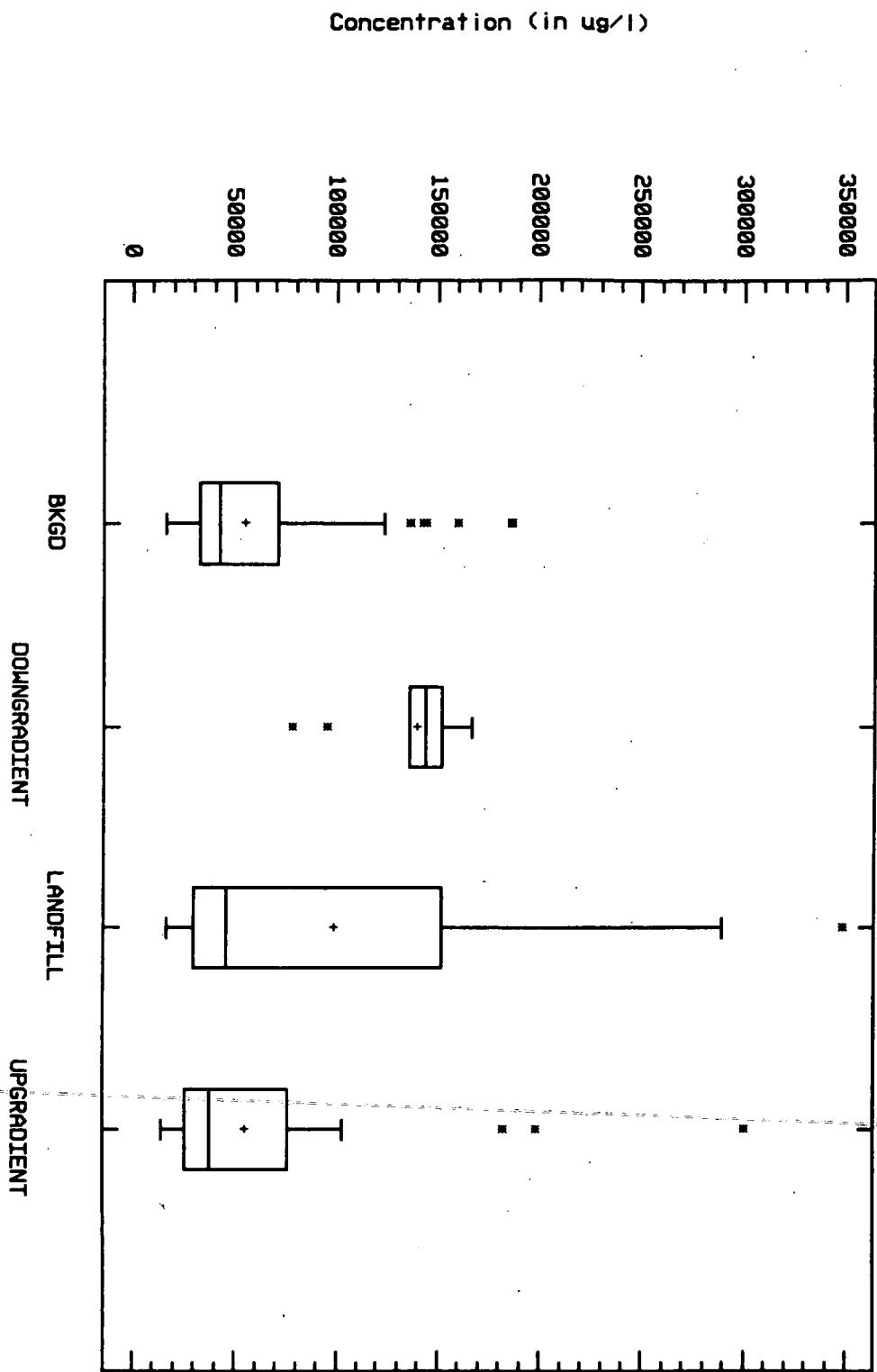
Background vs. 017 UHSU



Calcium (Total): Groundwater
Background vs. OUT UHSU

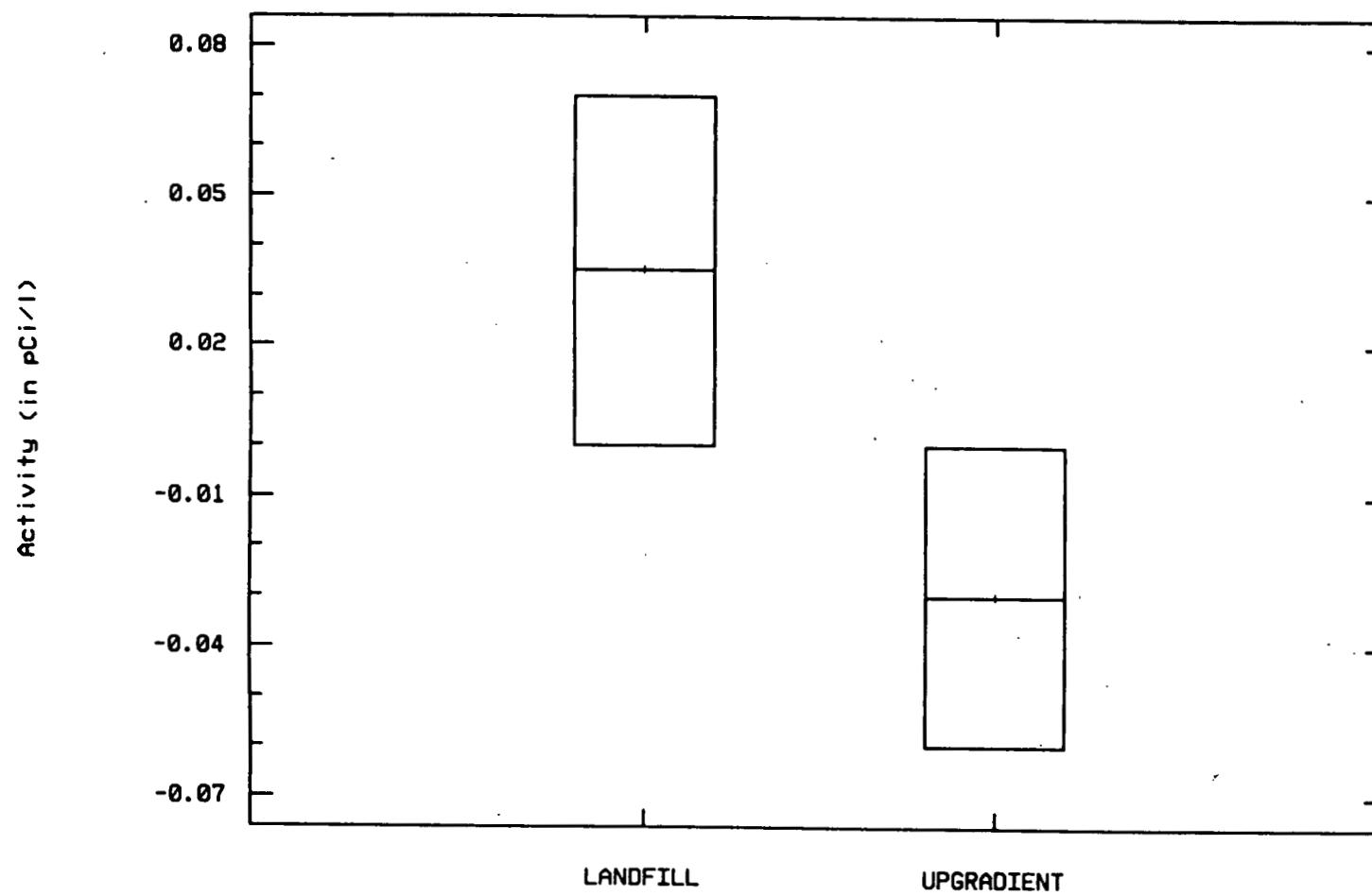


Calcium (Total): Groundwater
Background vs. DJ7 UHSU

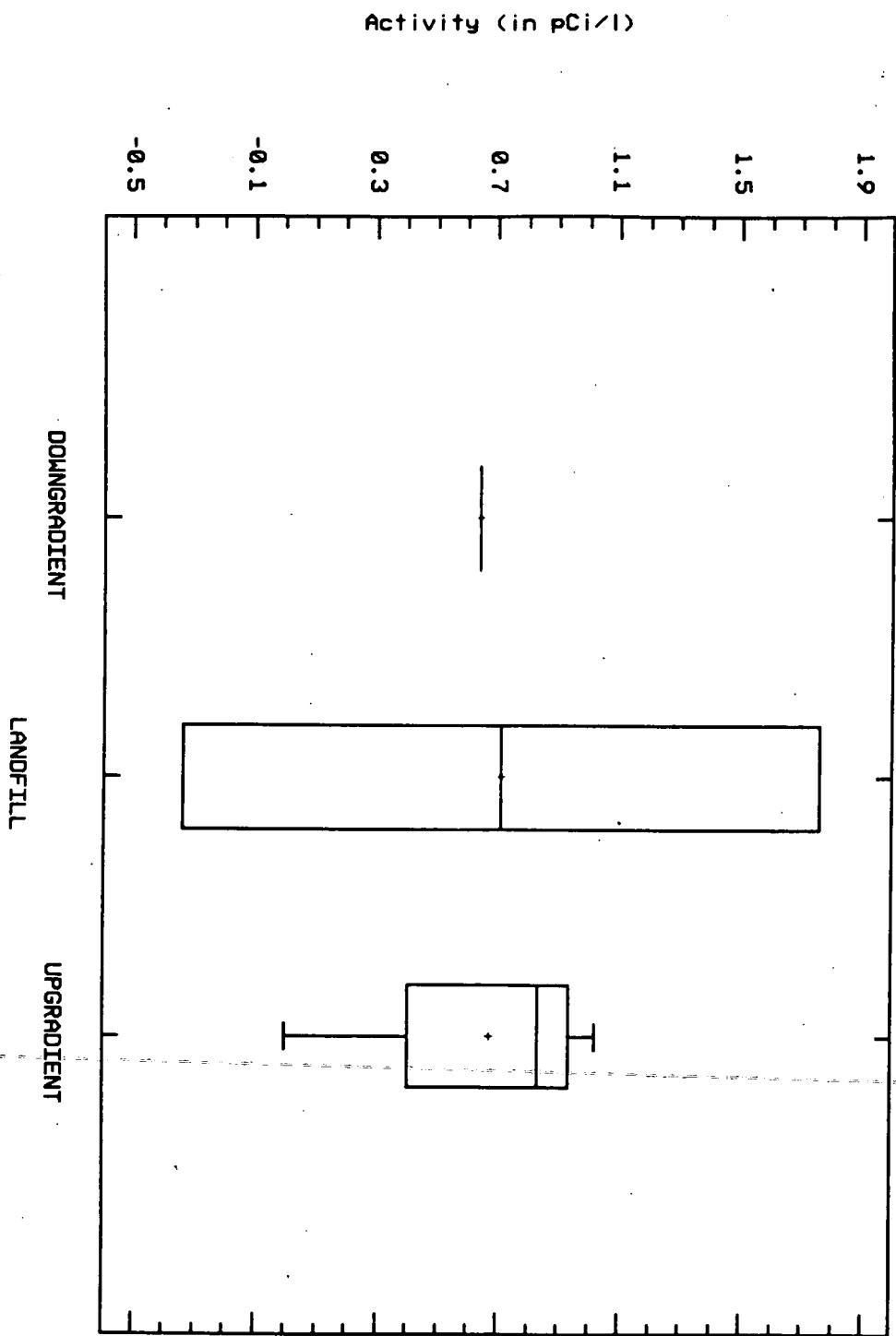


Cesium Rad. Unkn. Iso. Total:Groundwater

Background vs. OU7 UHSU

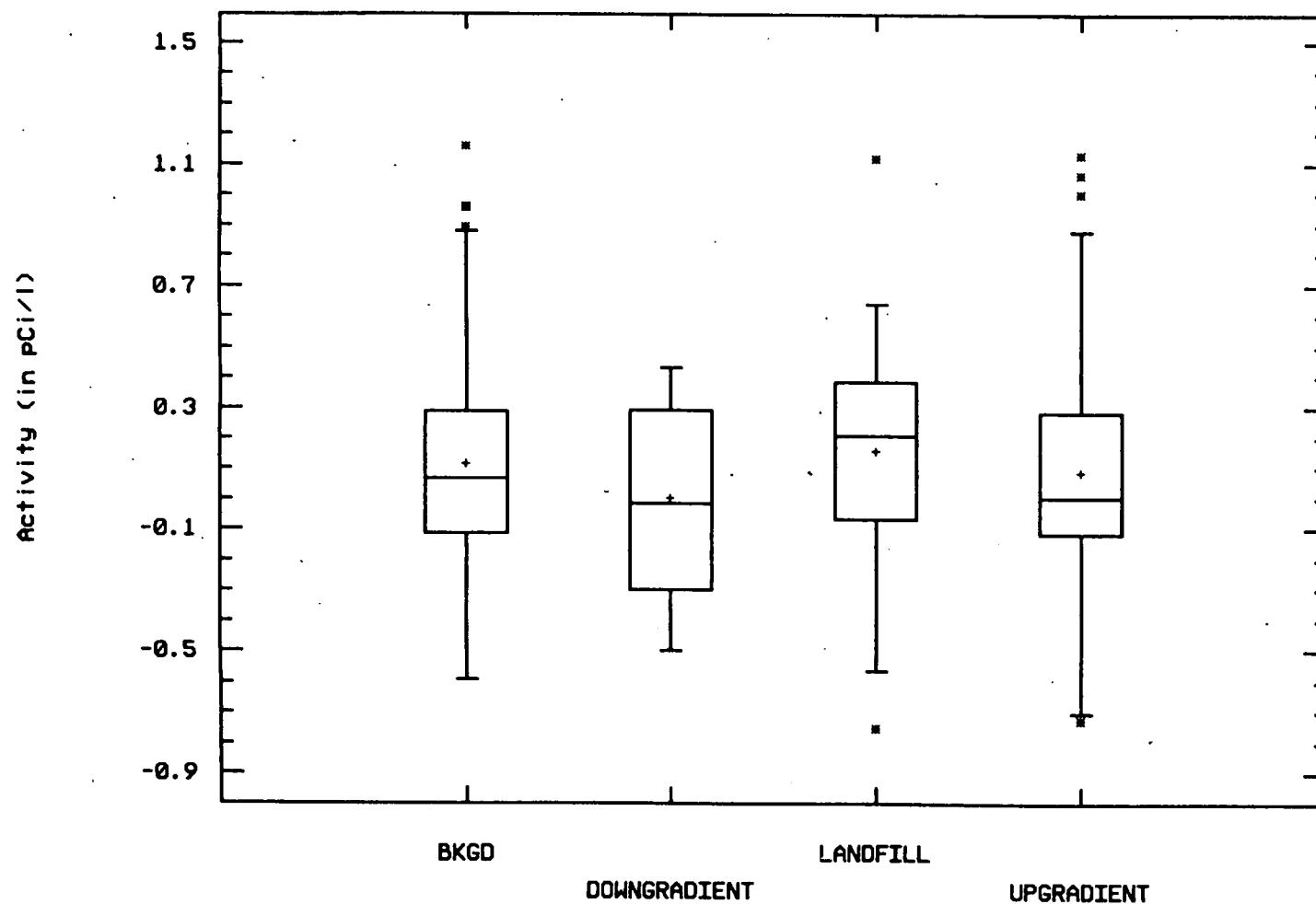


Cesium-134 (Total): Groundwater
Background vs. 017 UHSU



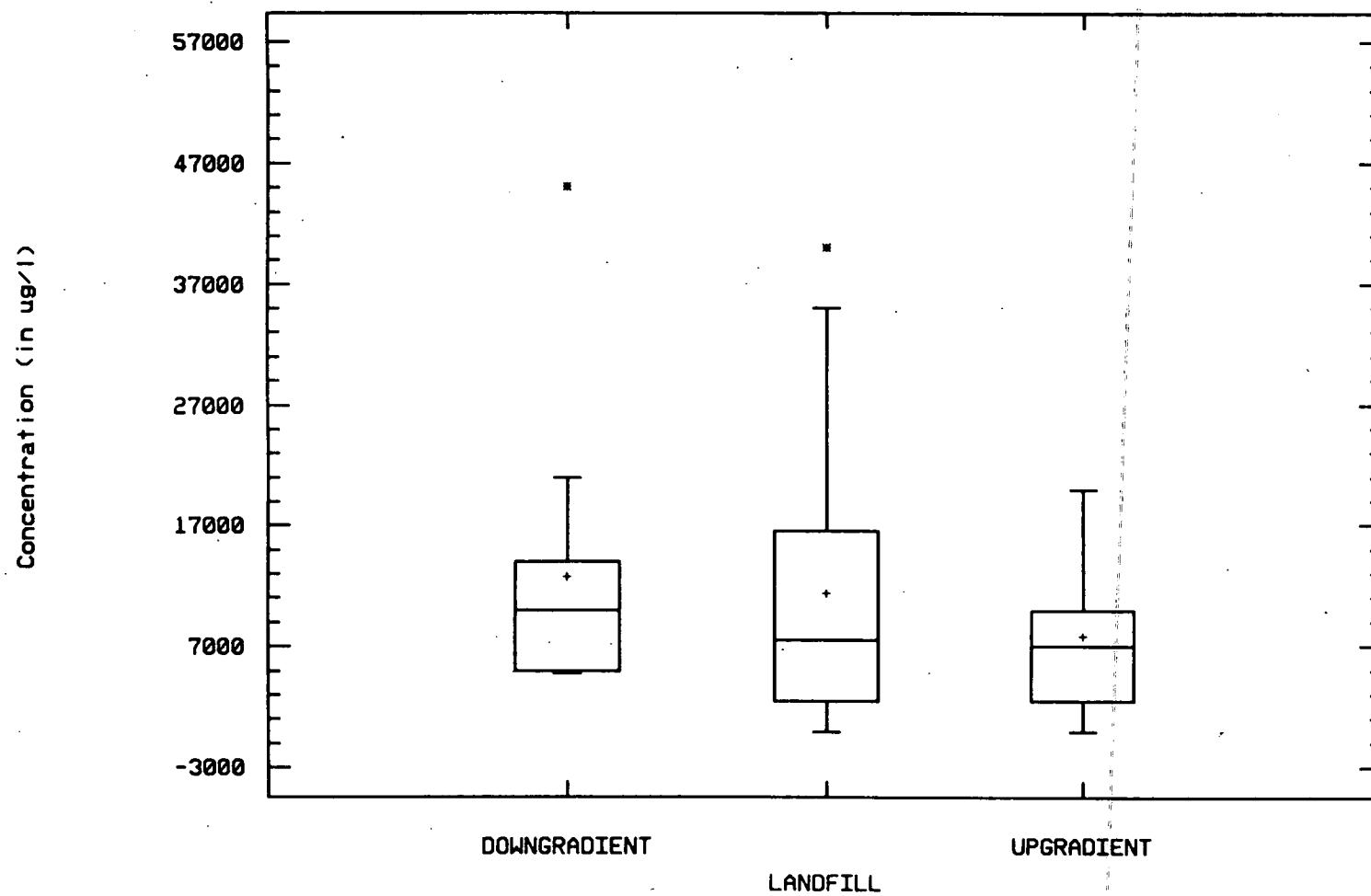
Cesium-137 (Total): Groundwater

Background vs. OU7 UHSU

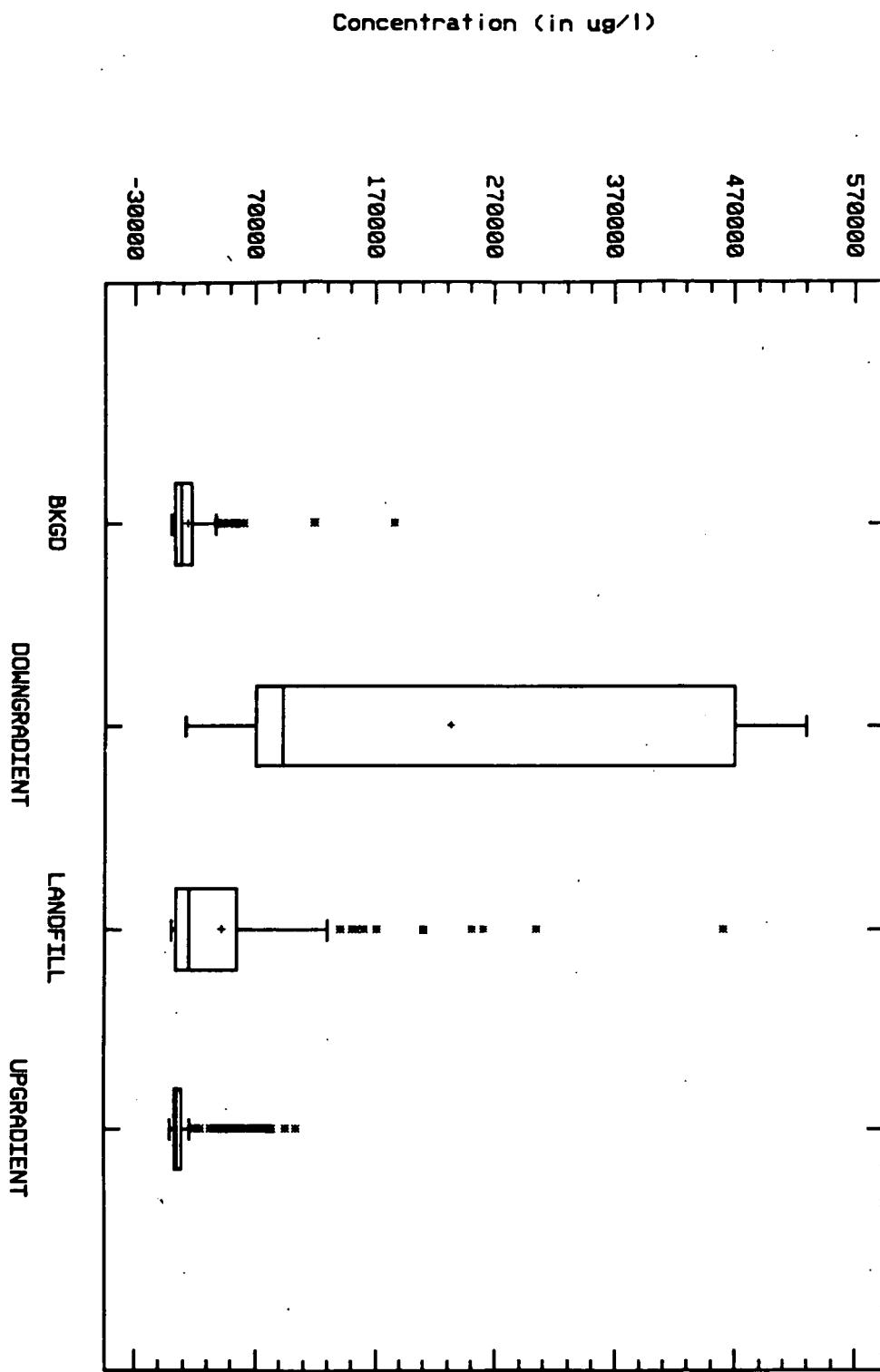


Chem. Oxygen Demand (Total): Groundwater

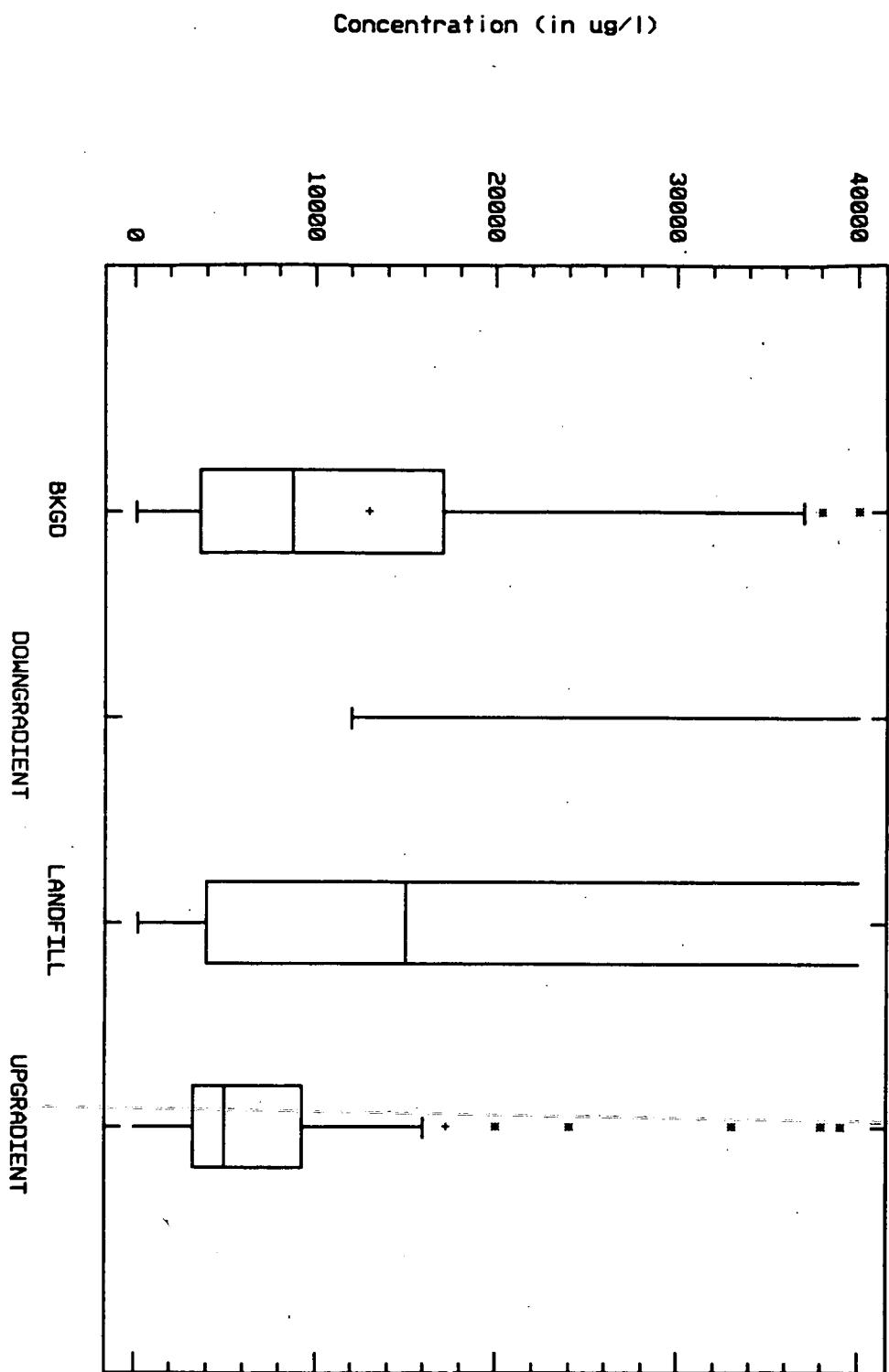
Background vs. OU7 UHSU



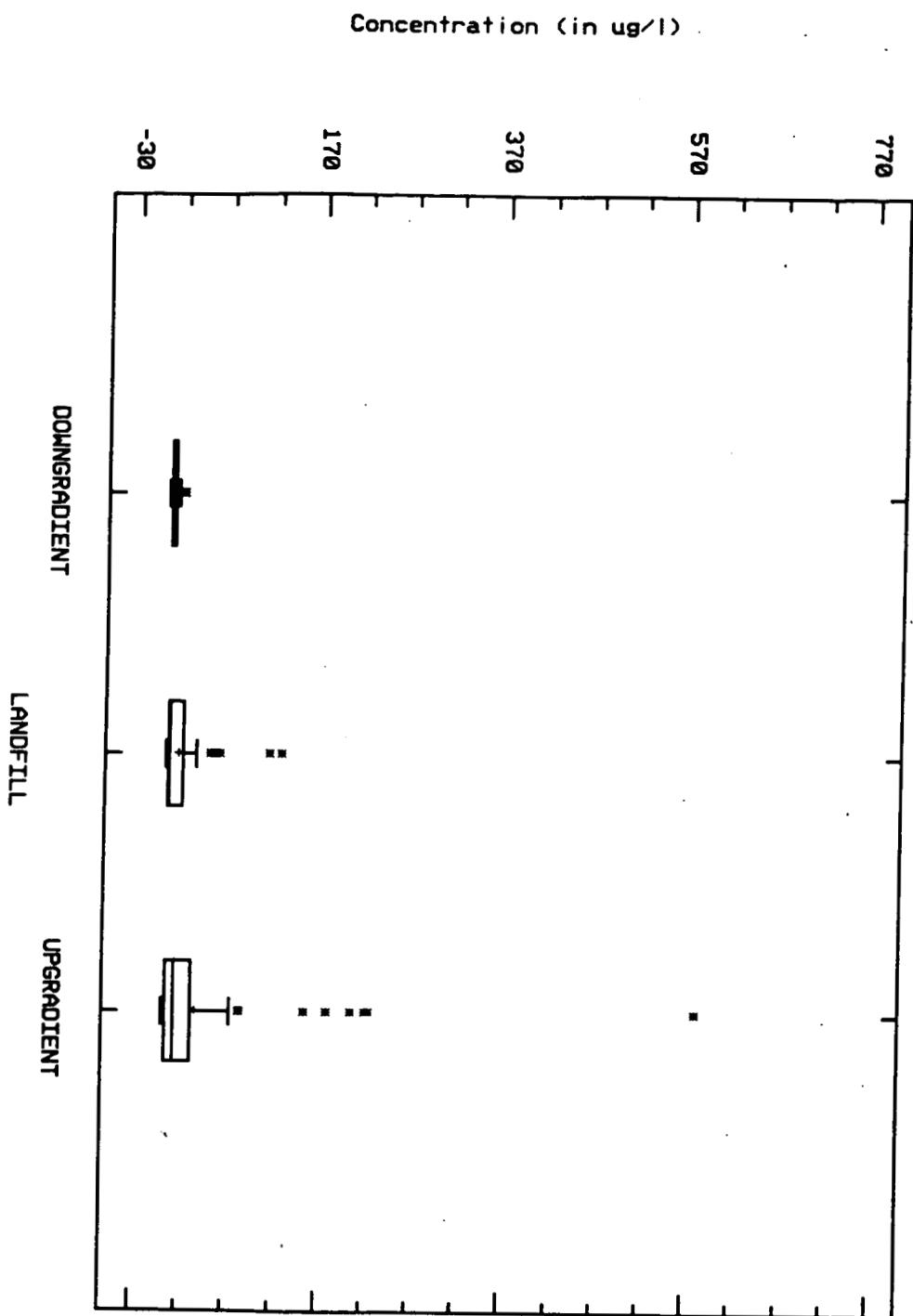
Chloride (Total) Groundwater
Background vs. OUT UHSU



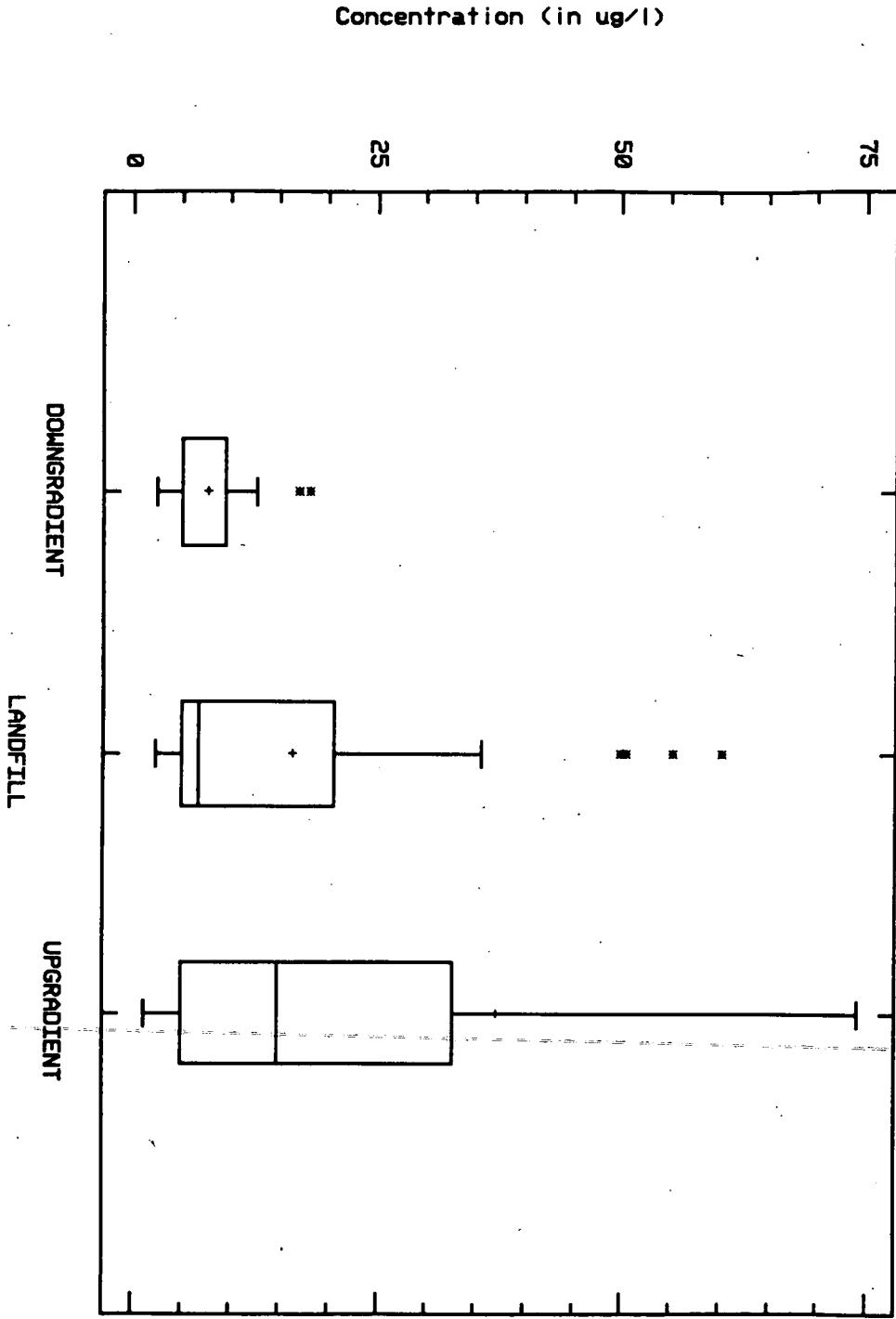
Chloride (Total): Groundwater
Background vs. 017 UHSU



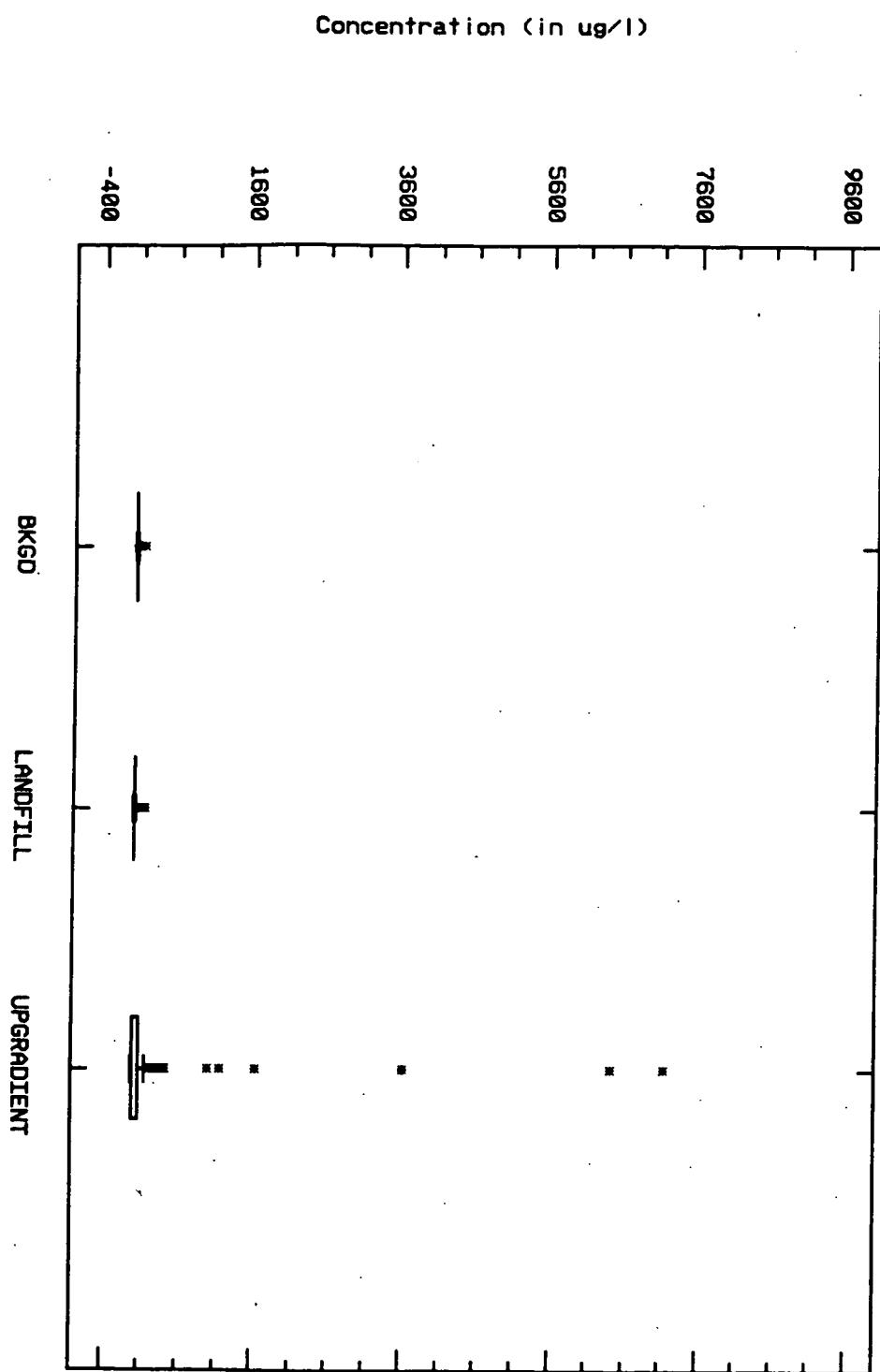
Chromium (Total): Groundwater
Background vs. 017 UHSU



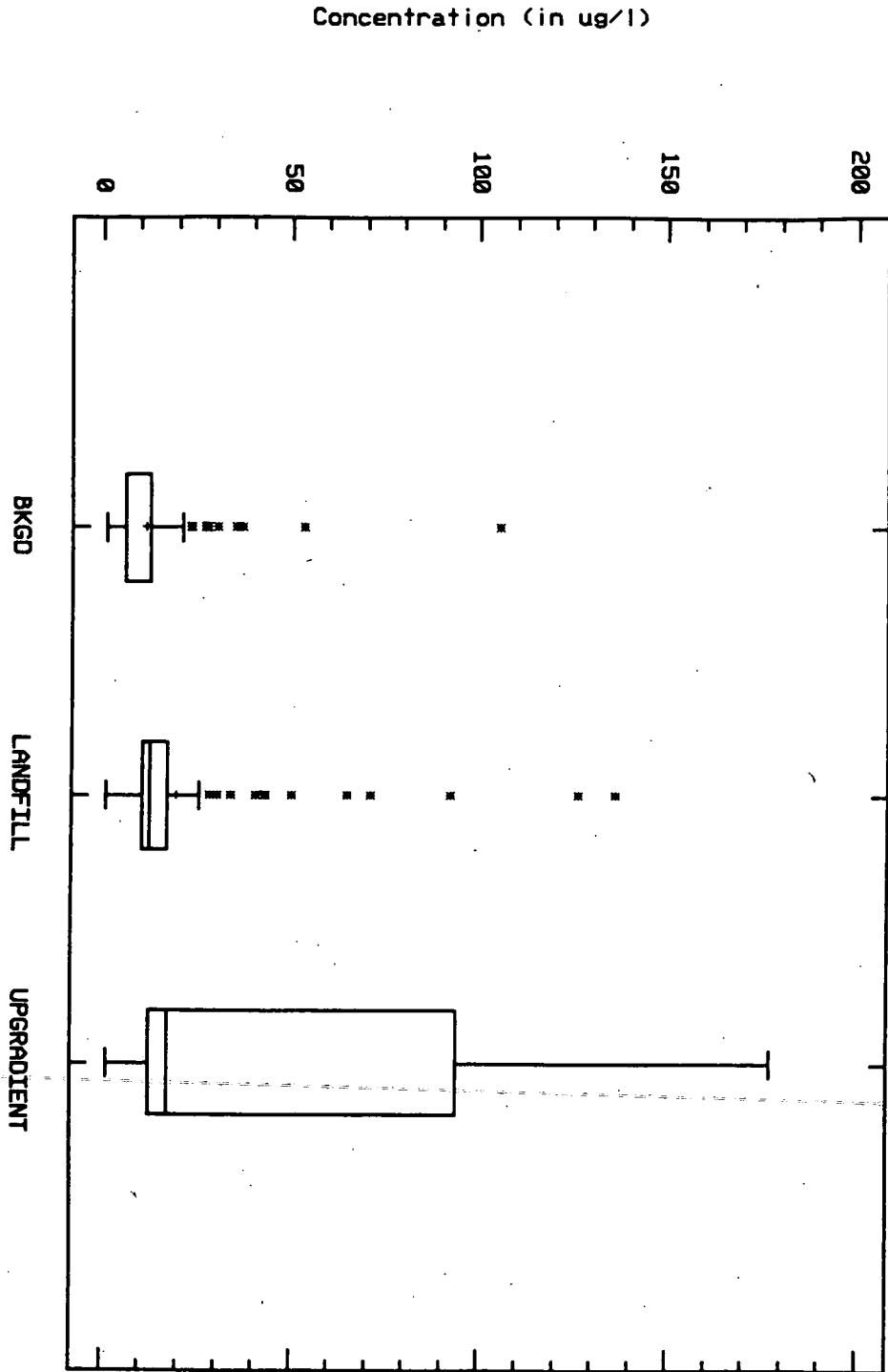
Chromium (Total): Groundwater
Background vs. 017 UHSU



Copper (Total): Groundwater
Background vs. OUT UHSU

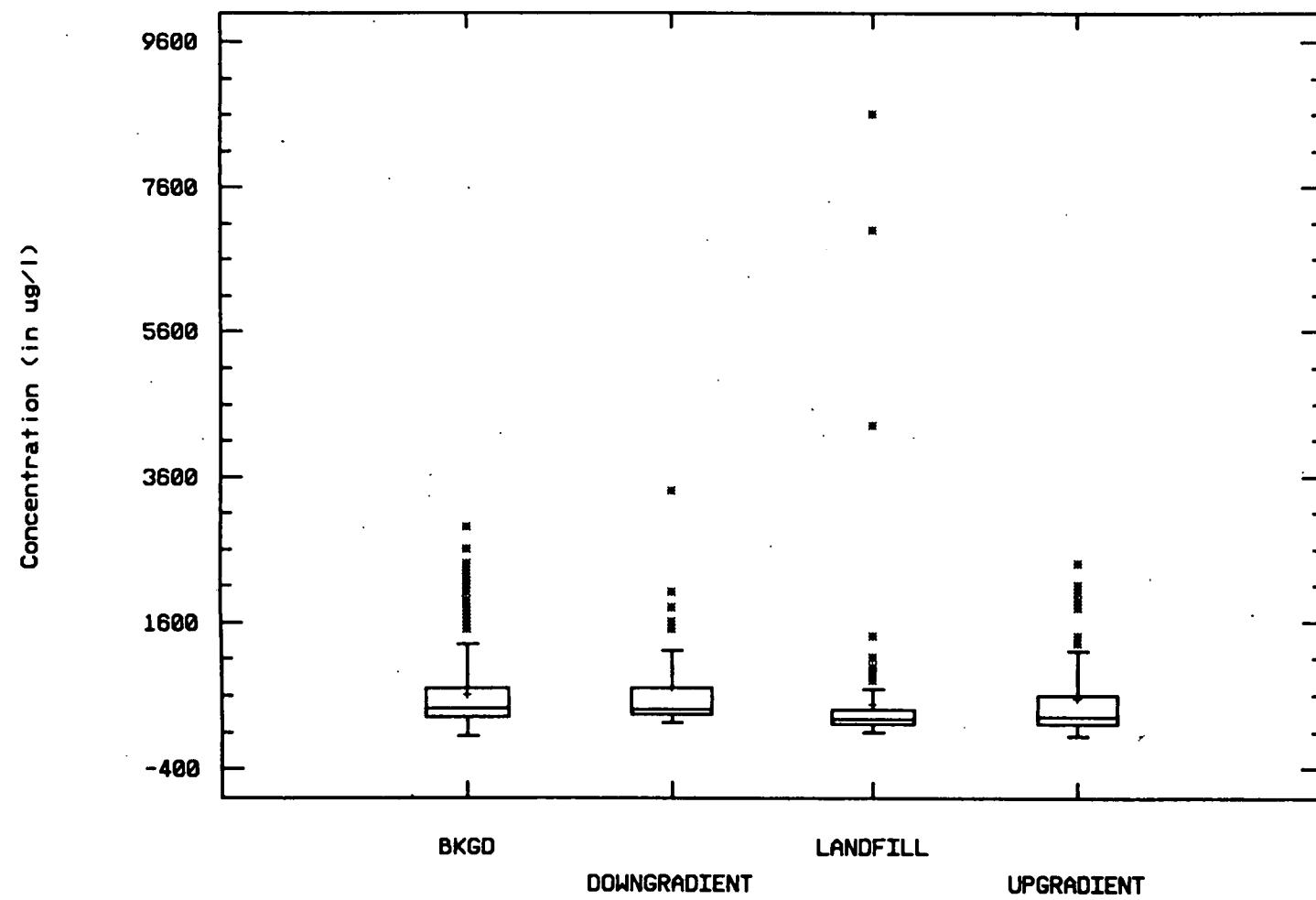


Copper (Total): Groundwater
Background vs. OUT UHSU

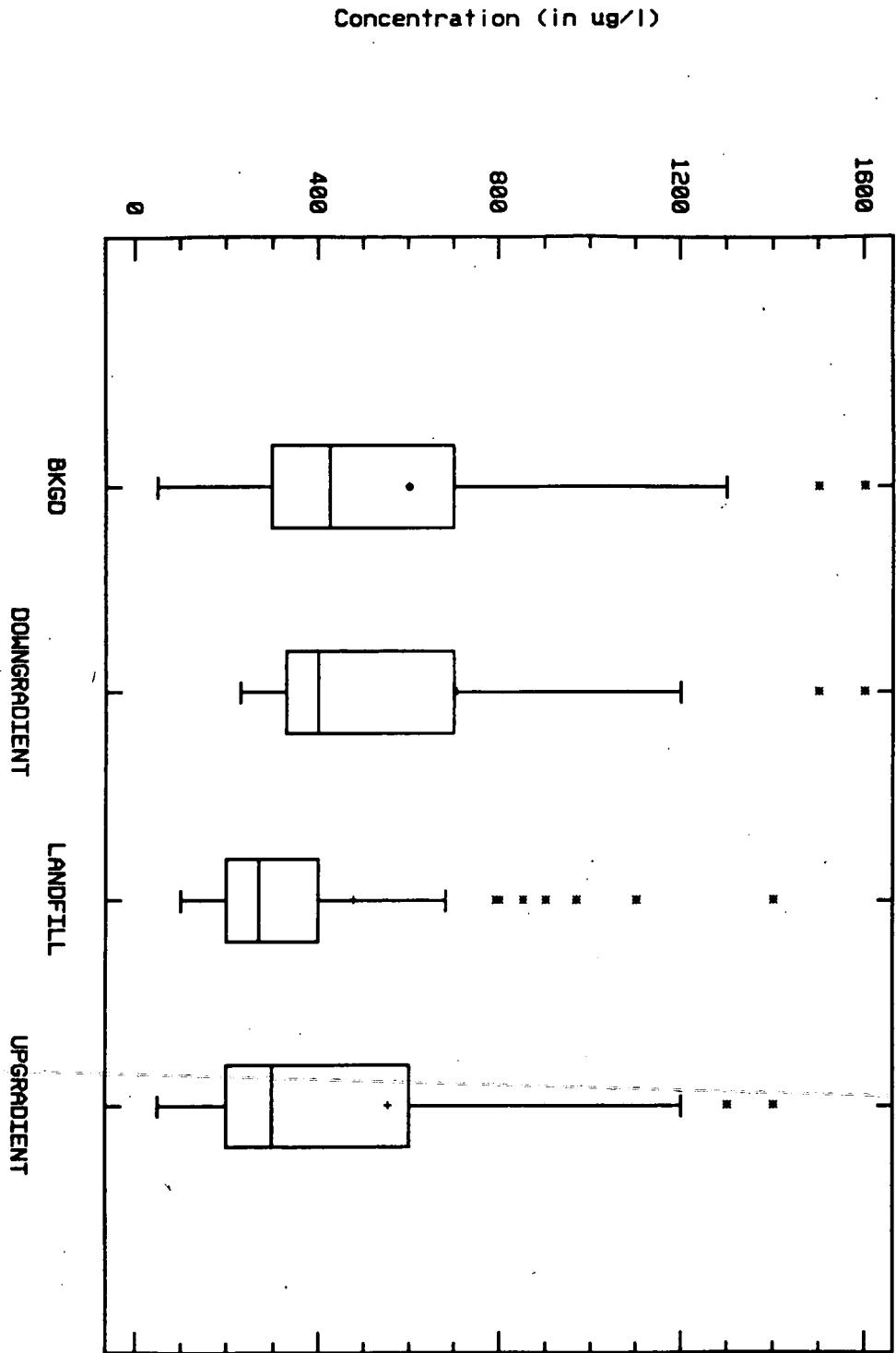


Fluoride (Total) Groundwater

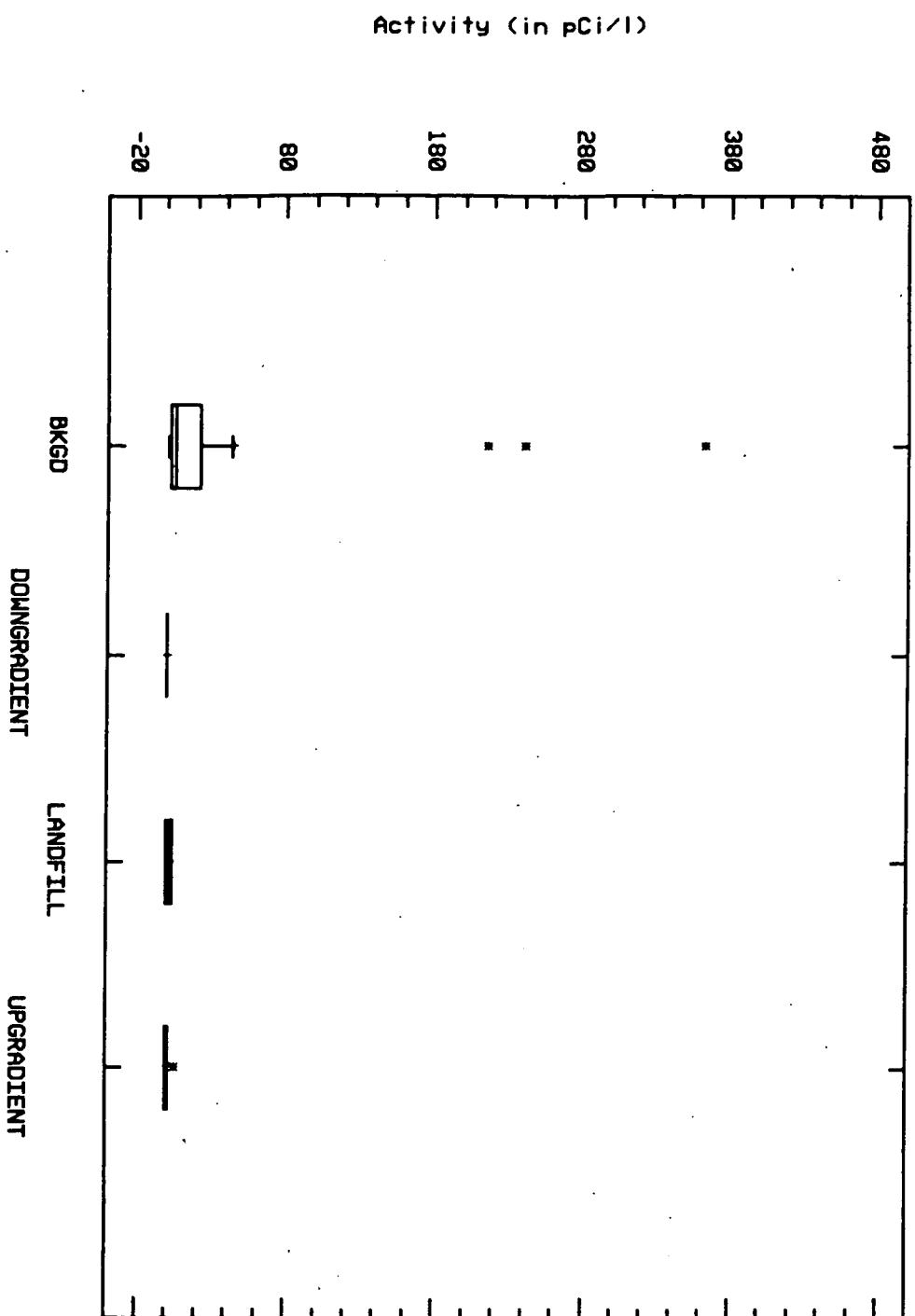
Background vs. OU7 UHSU



Fluoride (Total): Groundwater
Background vs. OUT UHSU

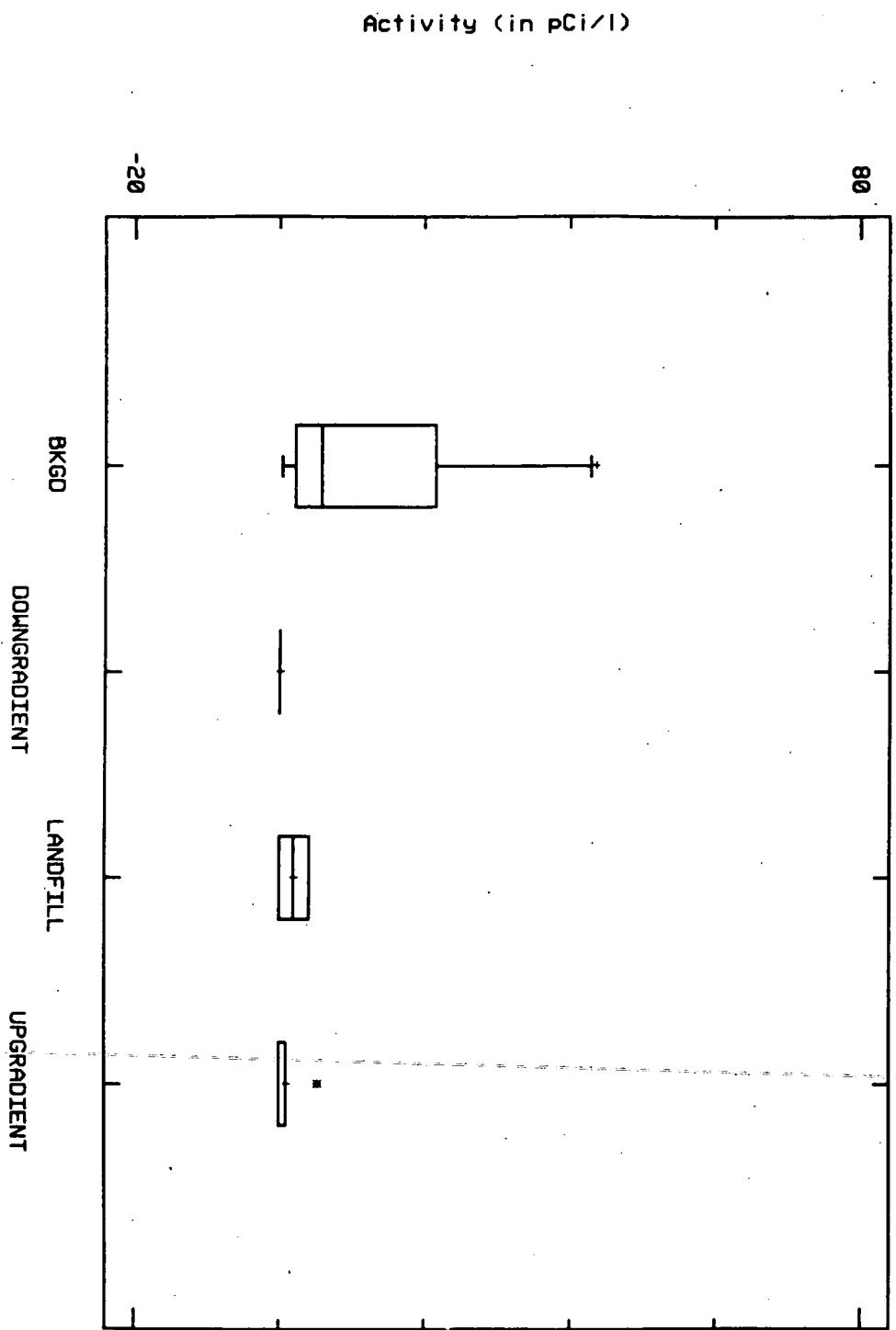


Gross Alpha (Total): Groundwater
Background vs. OUT UHSU

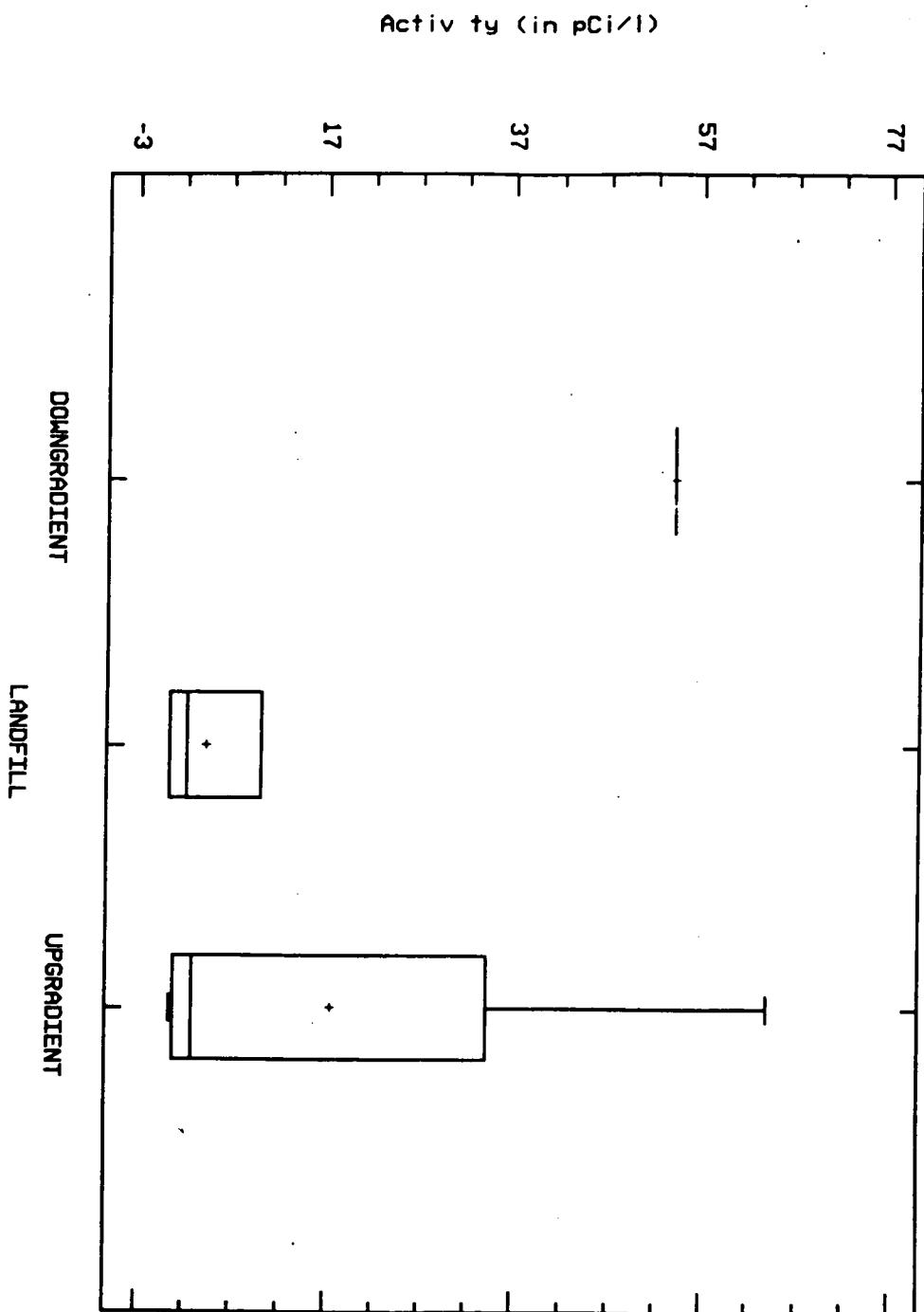


Gross Alpha (Total): Groundwater

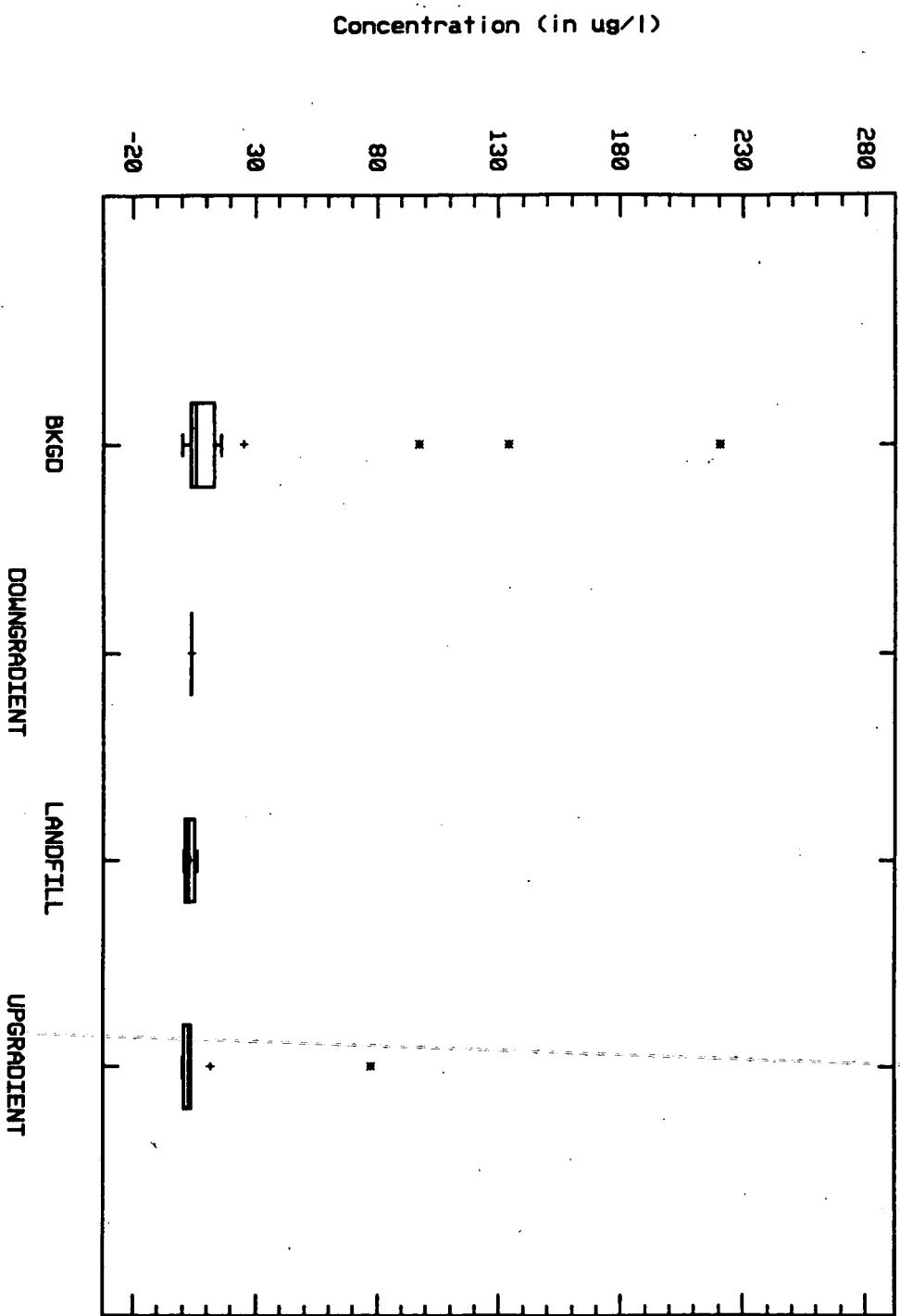
Background vs. 0U7 UHSU



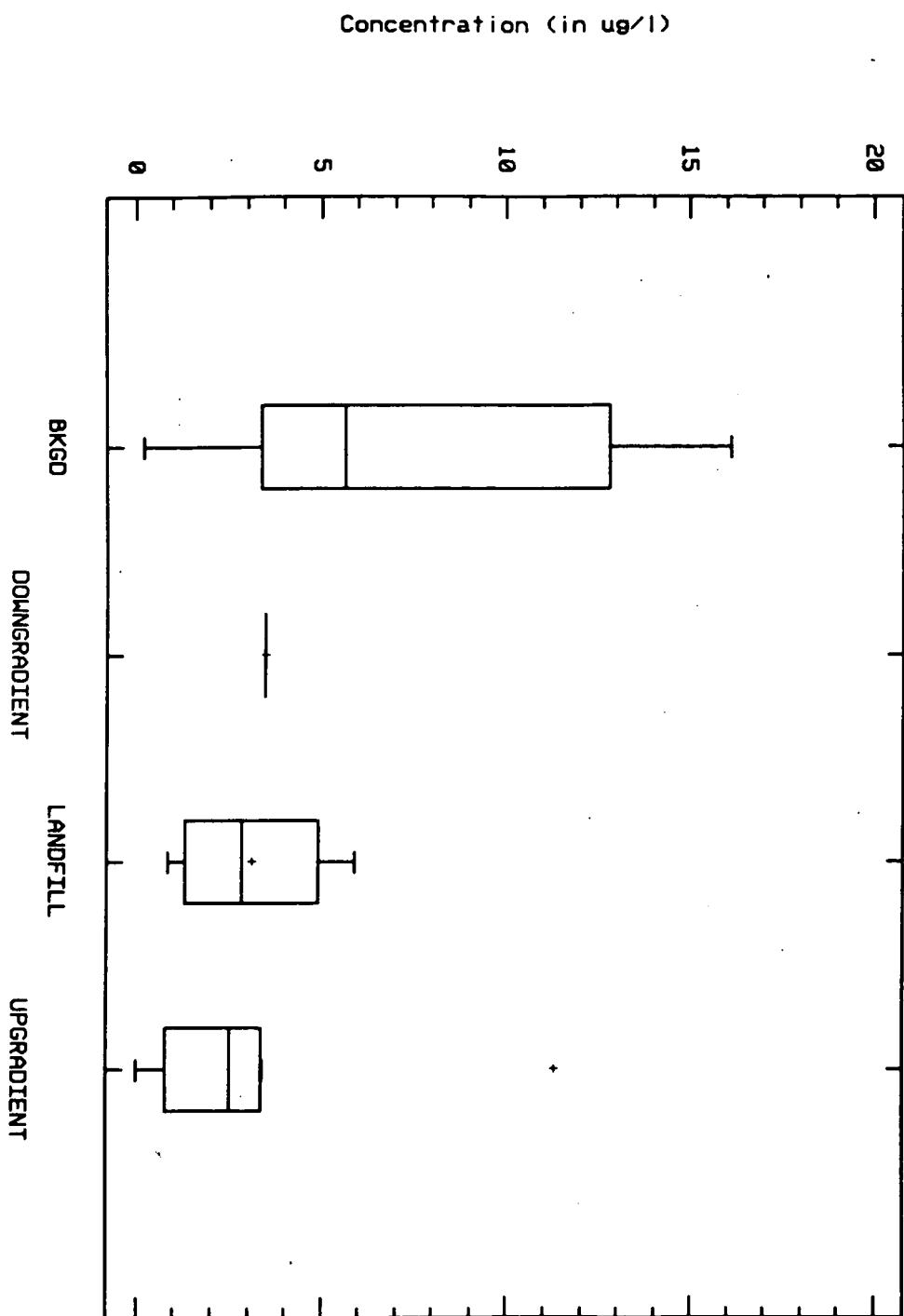
Gross Alpha-Suspended(Total):Groundwater
Background vs. 017 UHSU



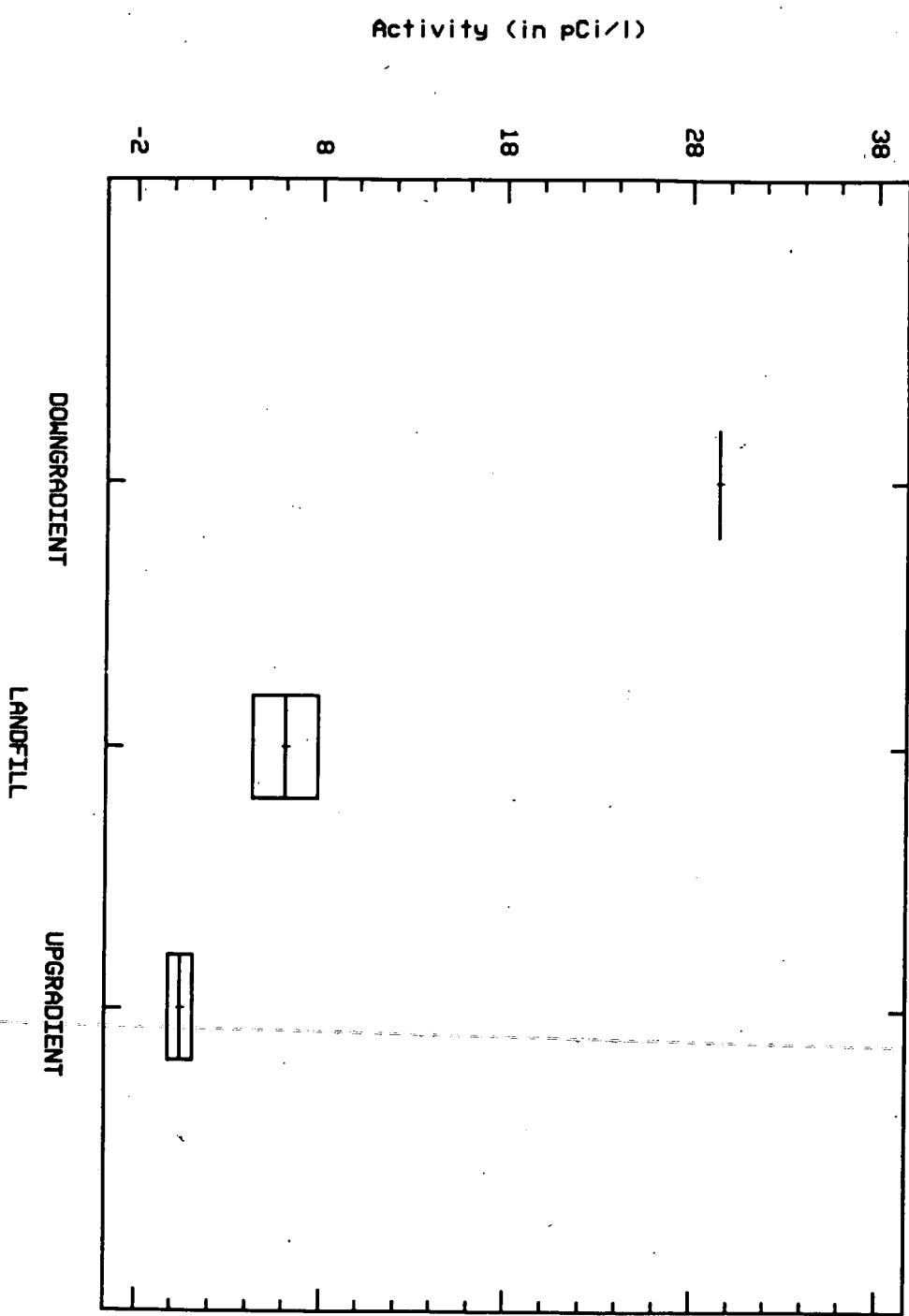
Gross Beta (Total): Groundwater
Background vs. OUT UHSU



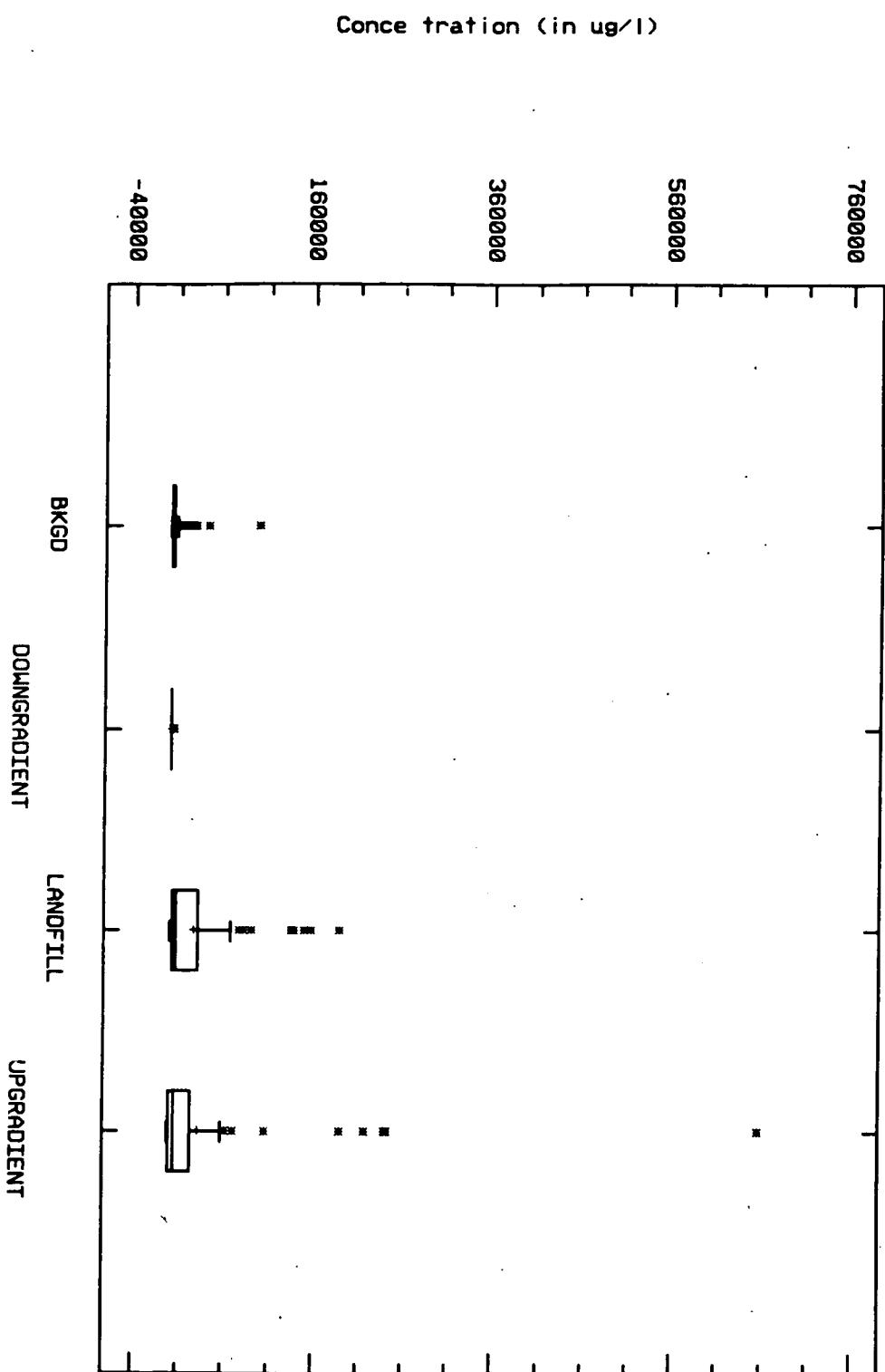
Gross Beta (Total): Groundwater
Background vs. OUT UHSU



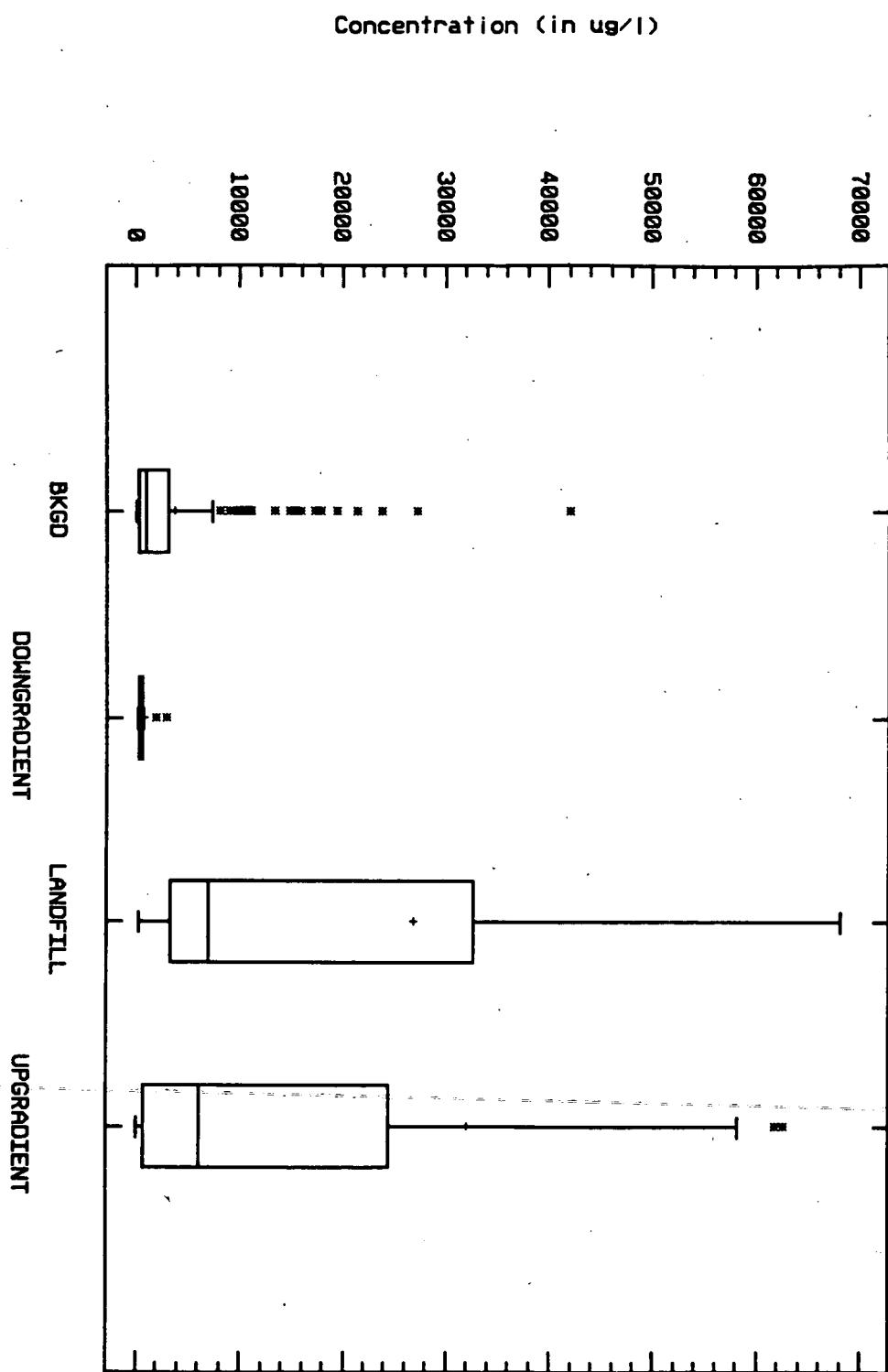
Gross Beta-Suspended(Total): Groundwater
Background vs. Our UHSU



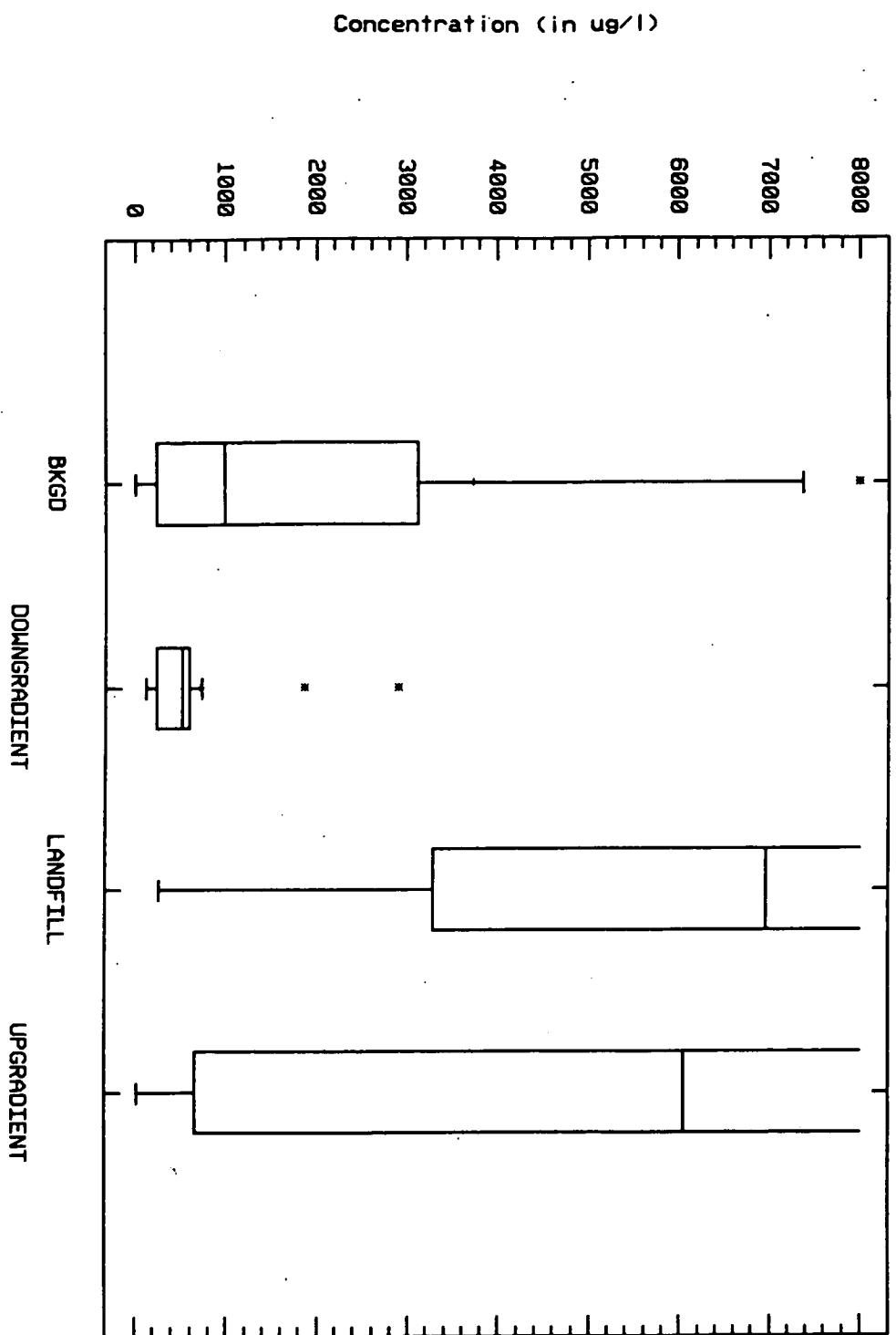
Iron (Total): Groundwater
Background vs. 0U7 UHSU



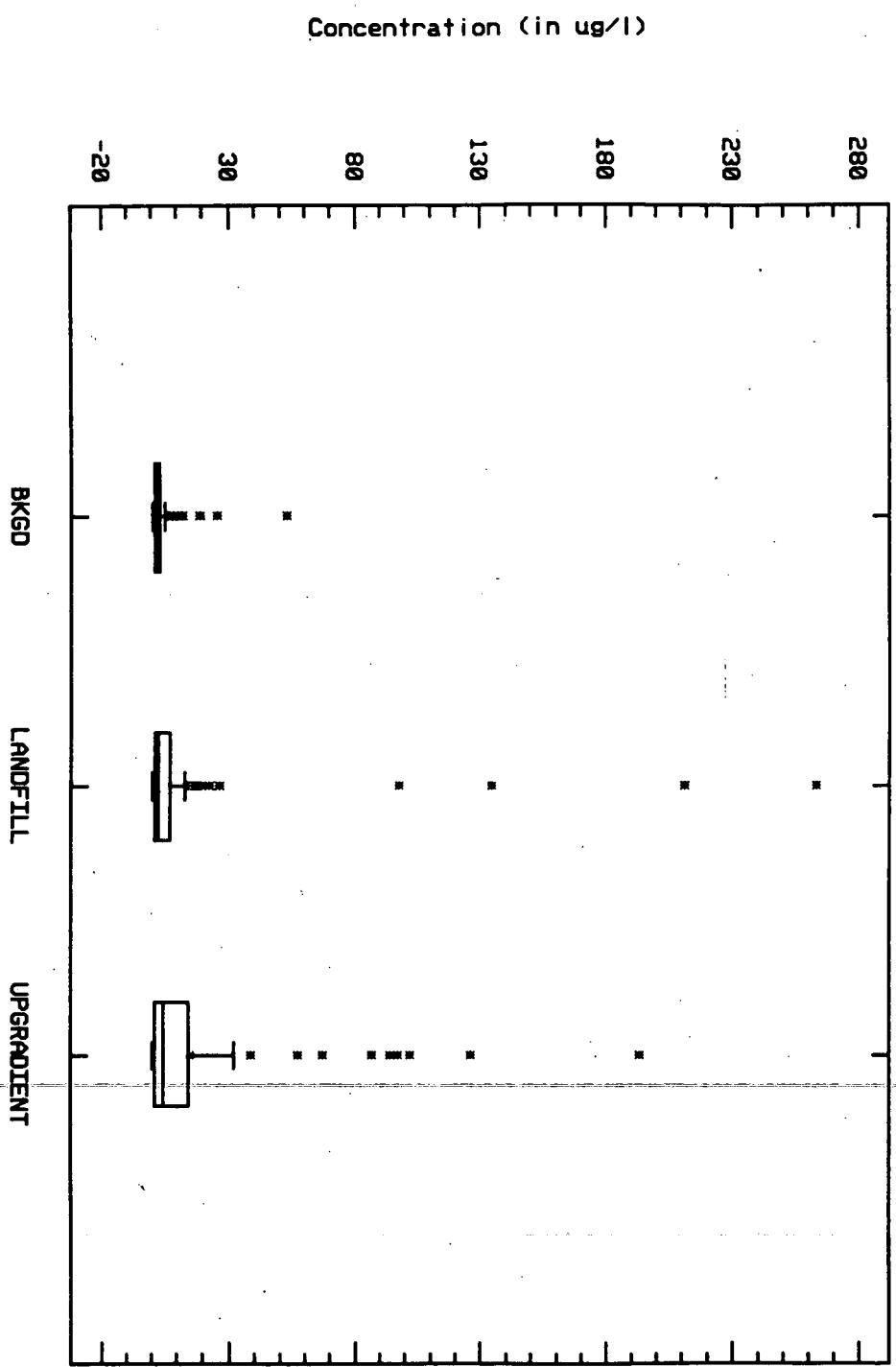
Iron (Total): Groundwater
Background vs. OUT UHSU



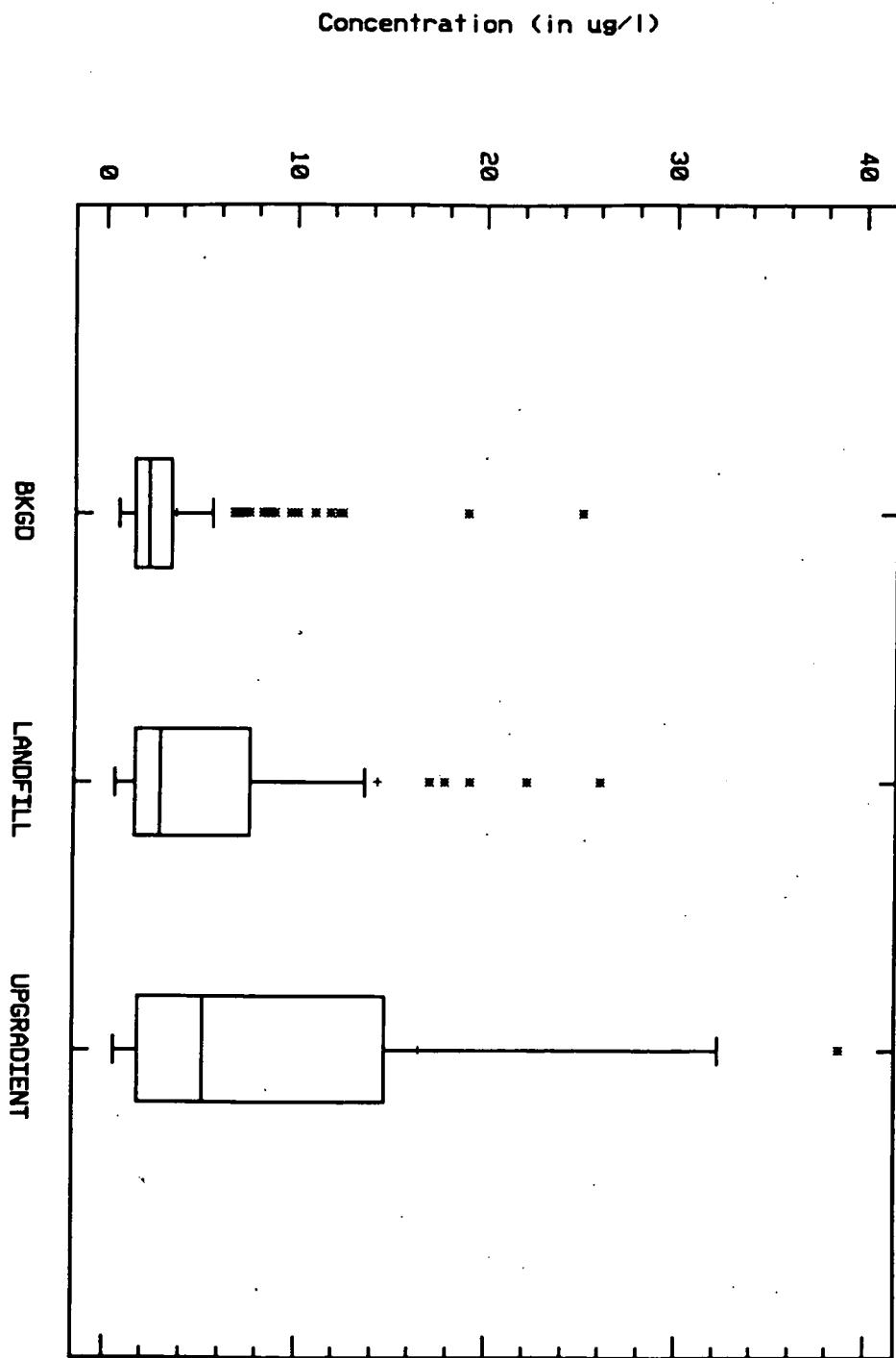
Iron (Total): Groundwater
Background vs. OUT UHSU



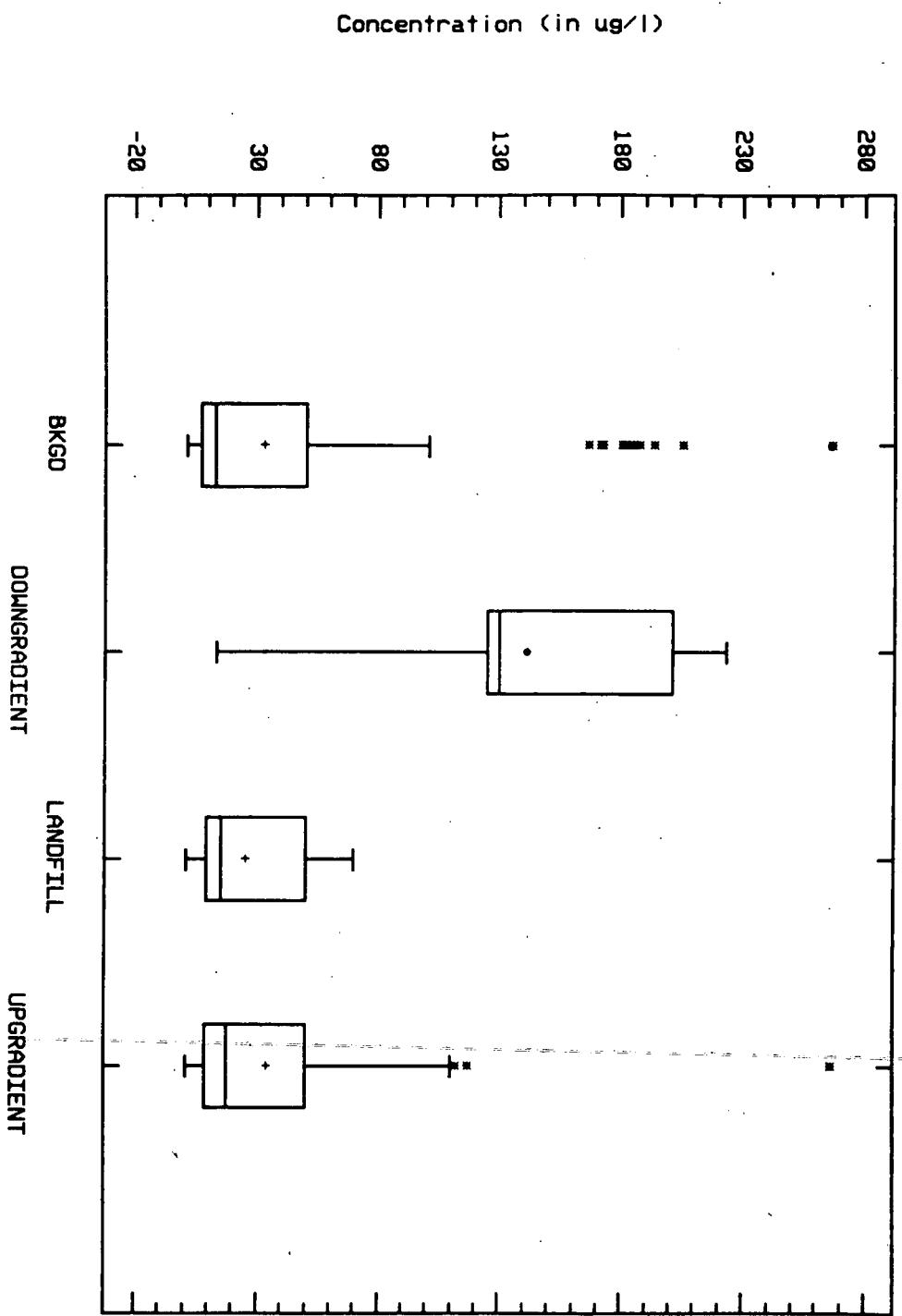
Lead (Total) Groundwater
Background vs. 017 UHSU



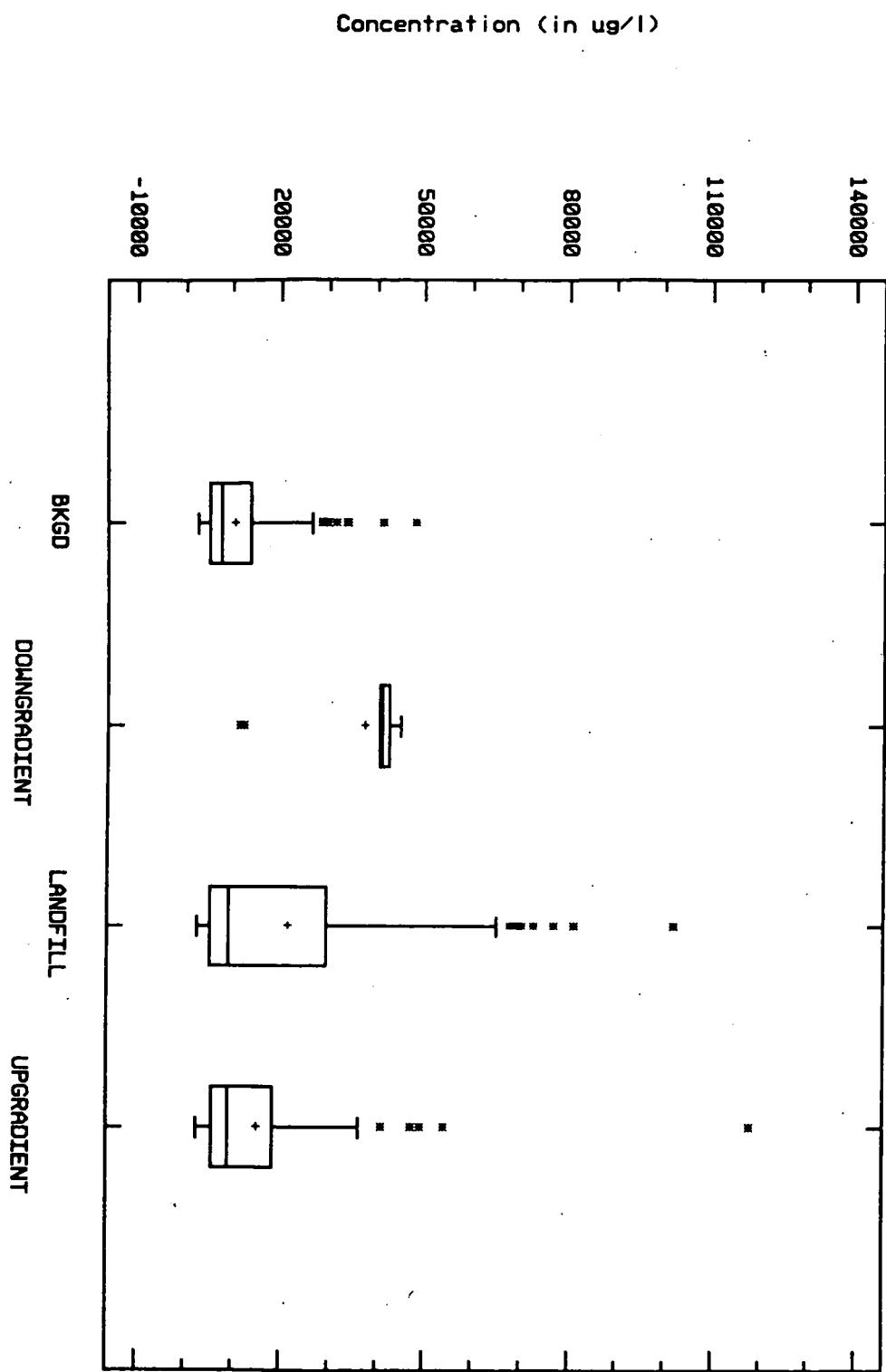
Lead (Total): Groundwater
Background vs. OUT UHSU



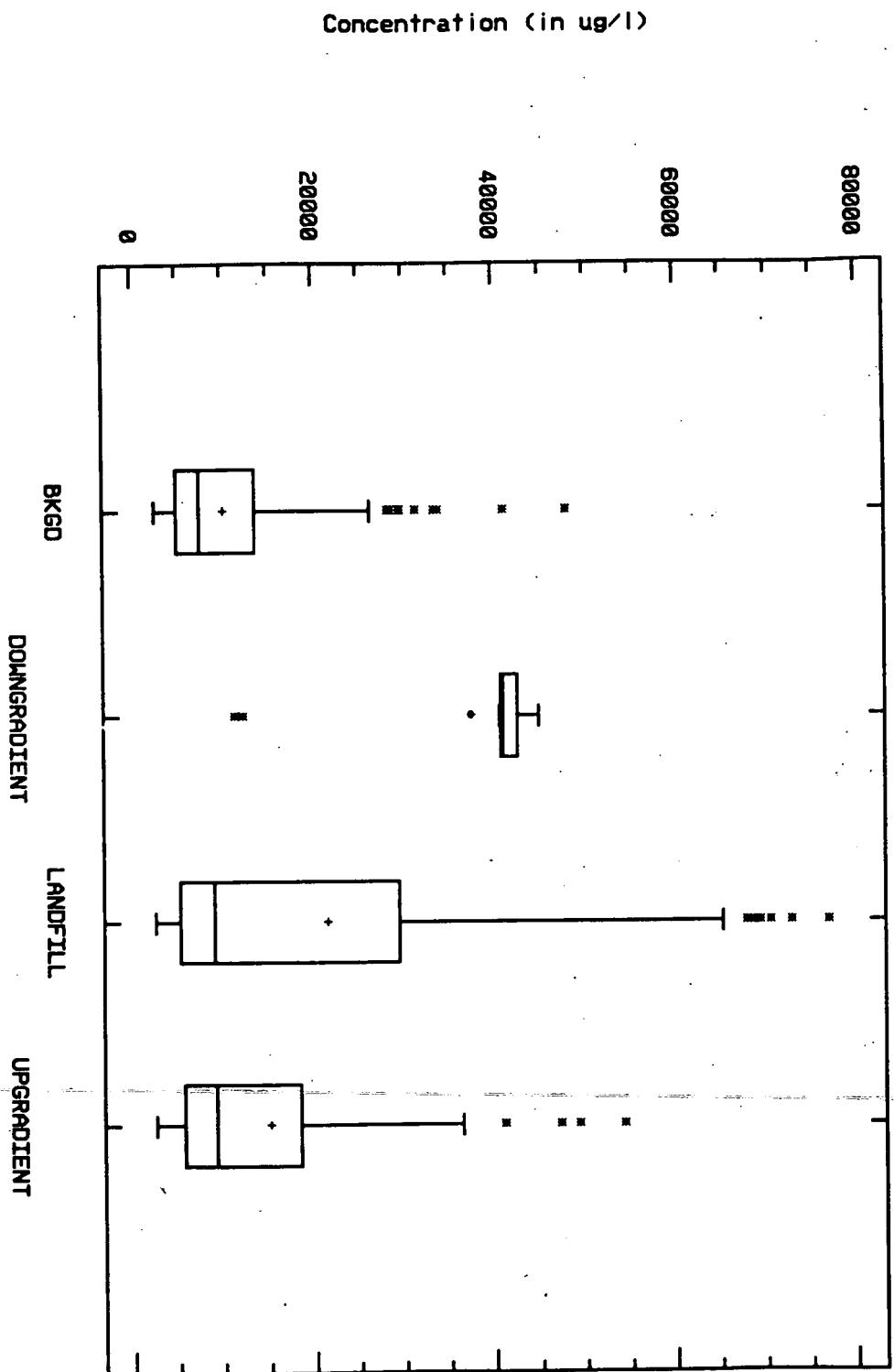
Lithium (Total) Groundwater
Background vs. 0U7 UHSU



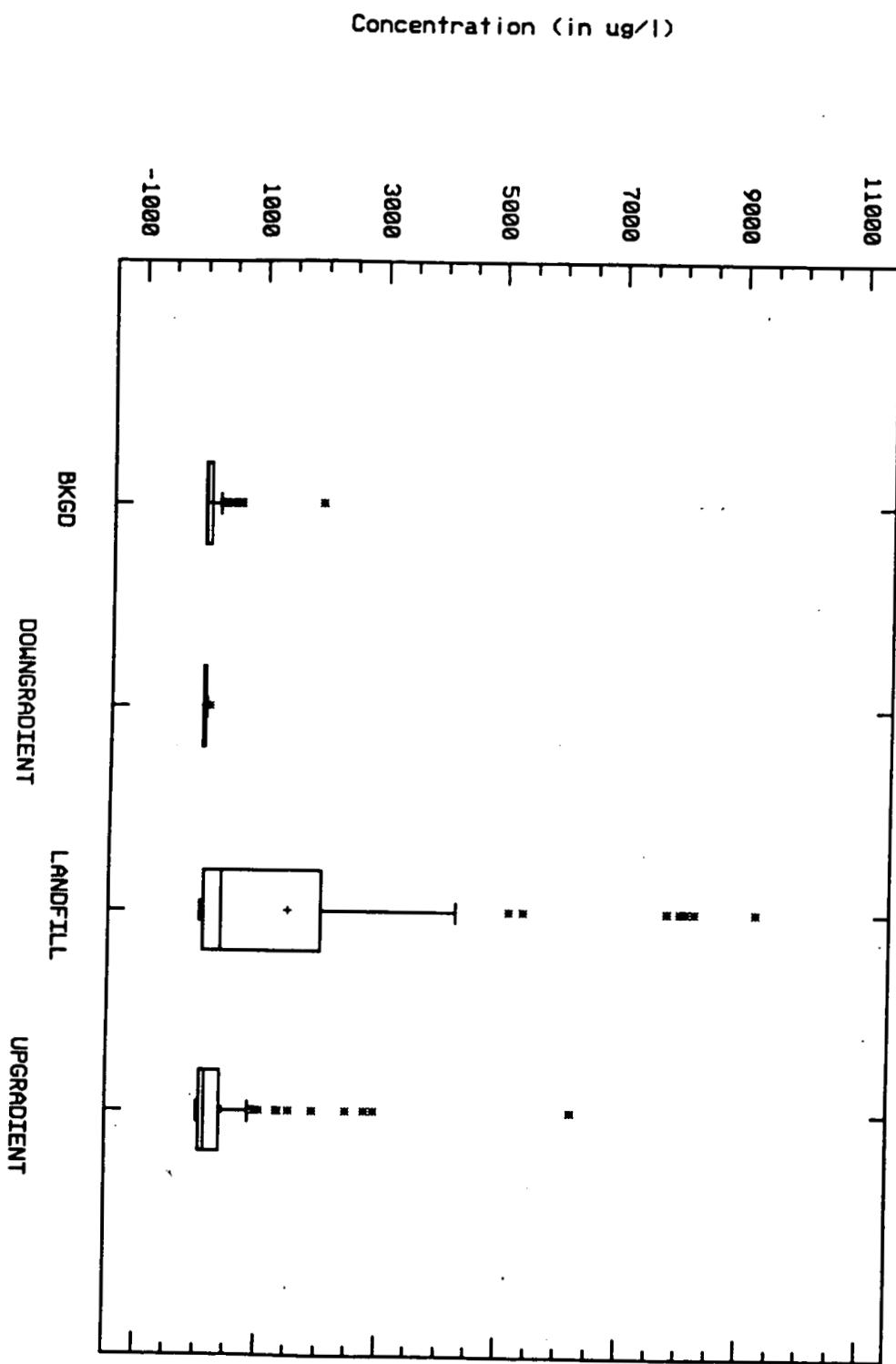
Magnesium (Total) Groundwater
Background vs. 017 UHSU



Magnesium (Total): Groundwater
Background vs. OU7 UHSU

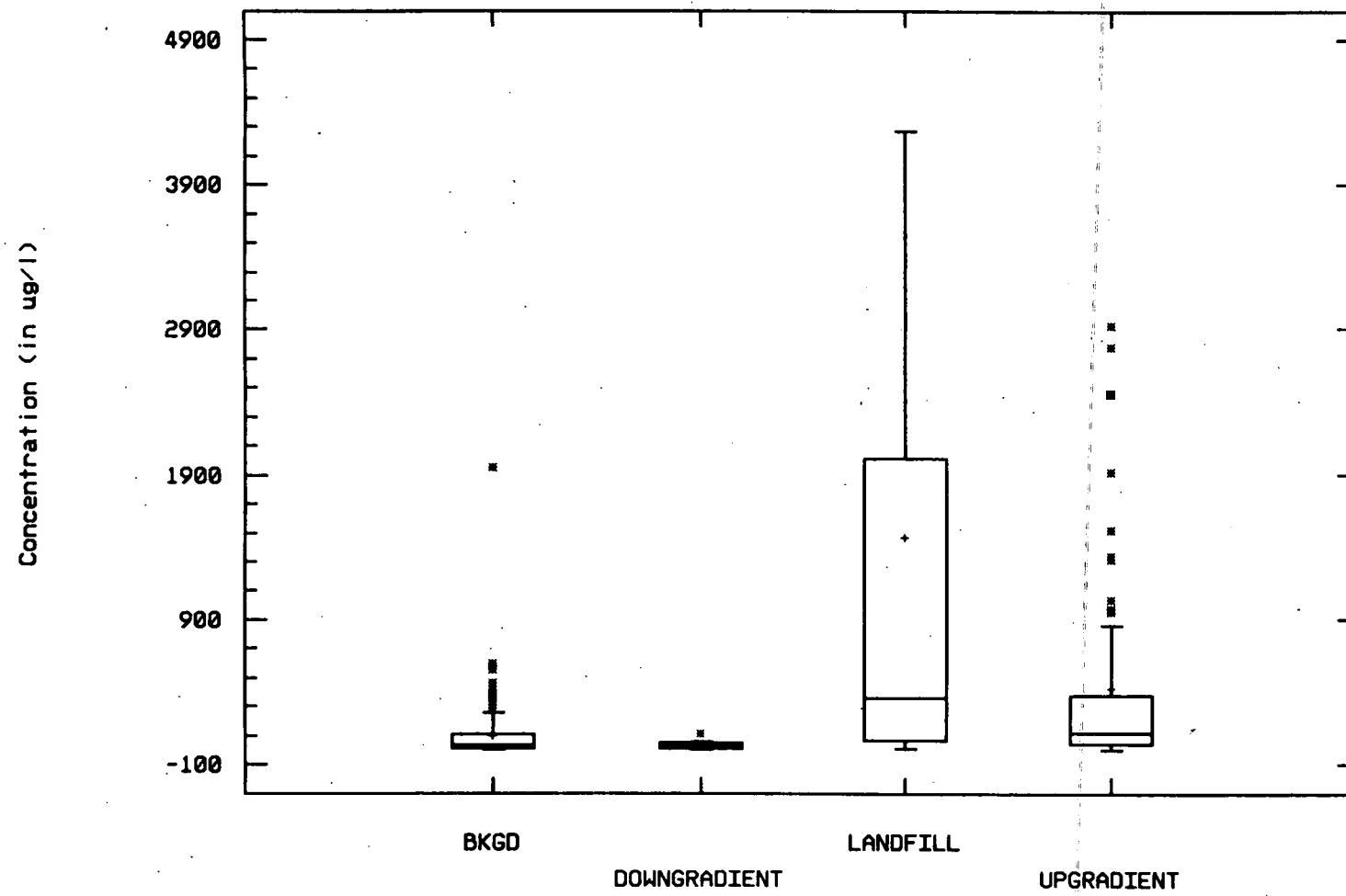


Manganese (Total) Groundwater
Background vs. OUT UHSU

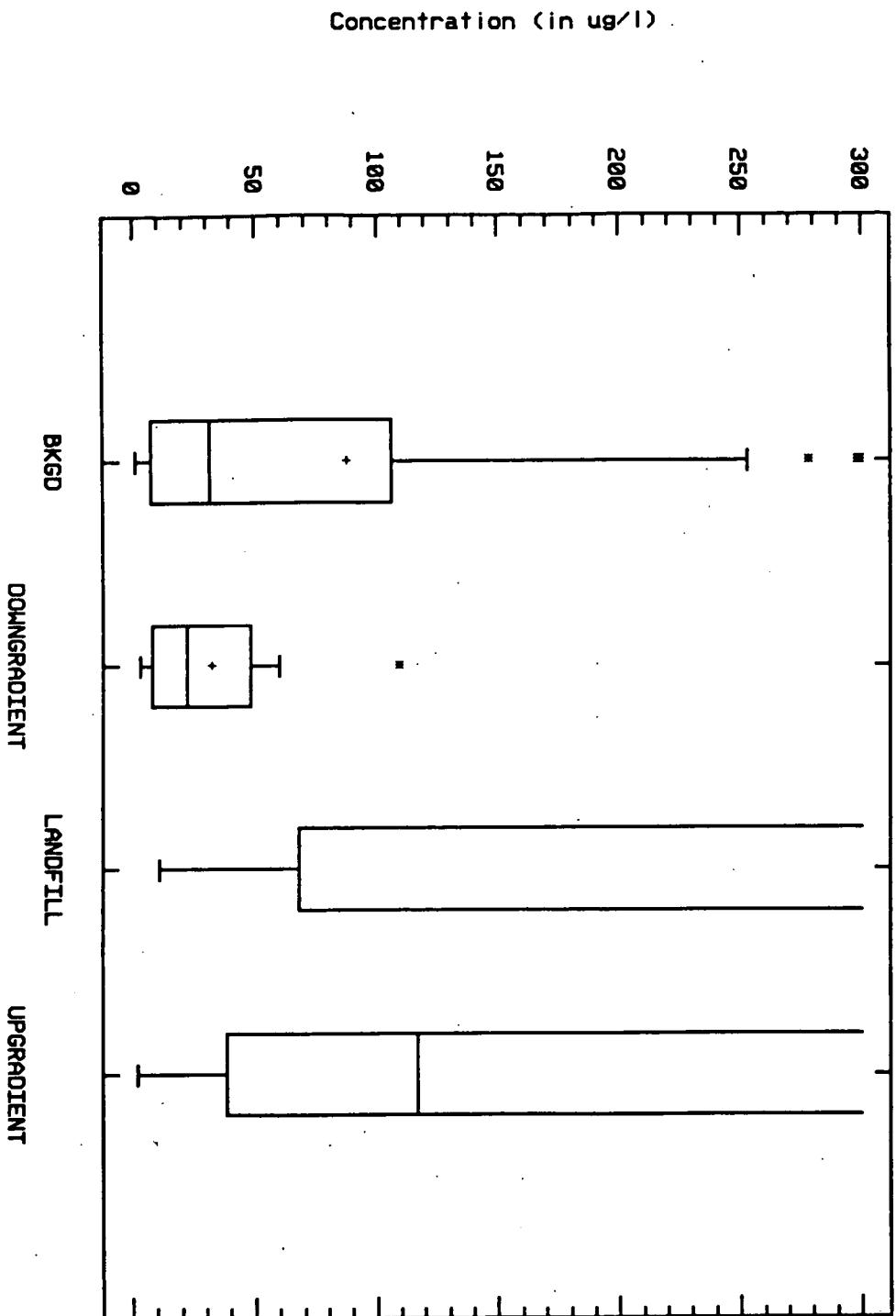


Manganese (Total) Groundwater

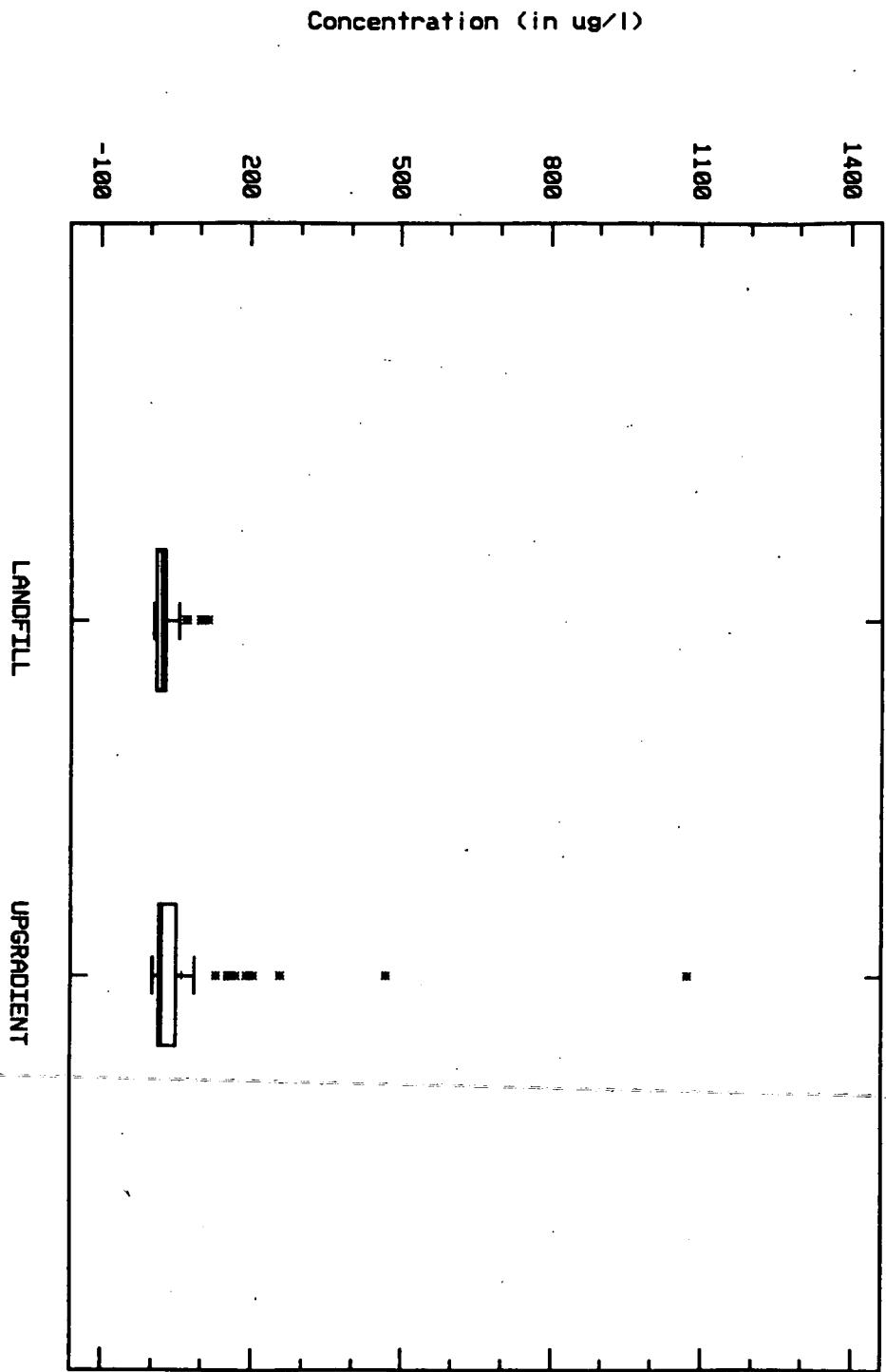
Background vs. OU7 UHSU



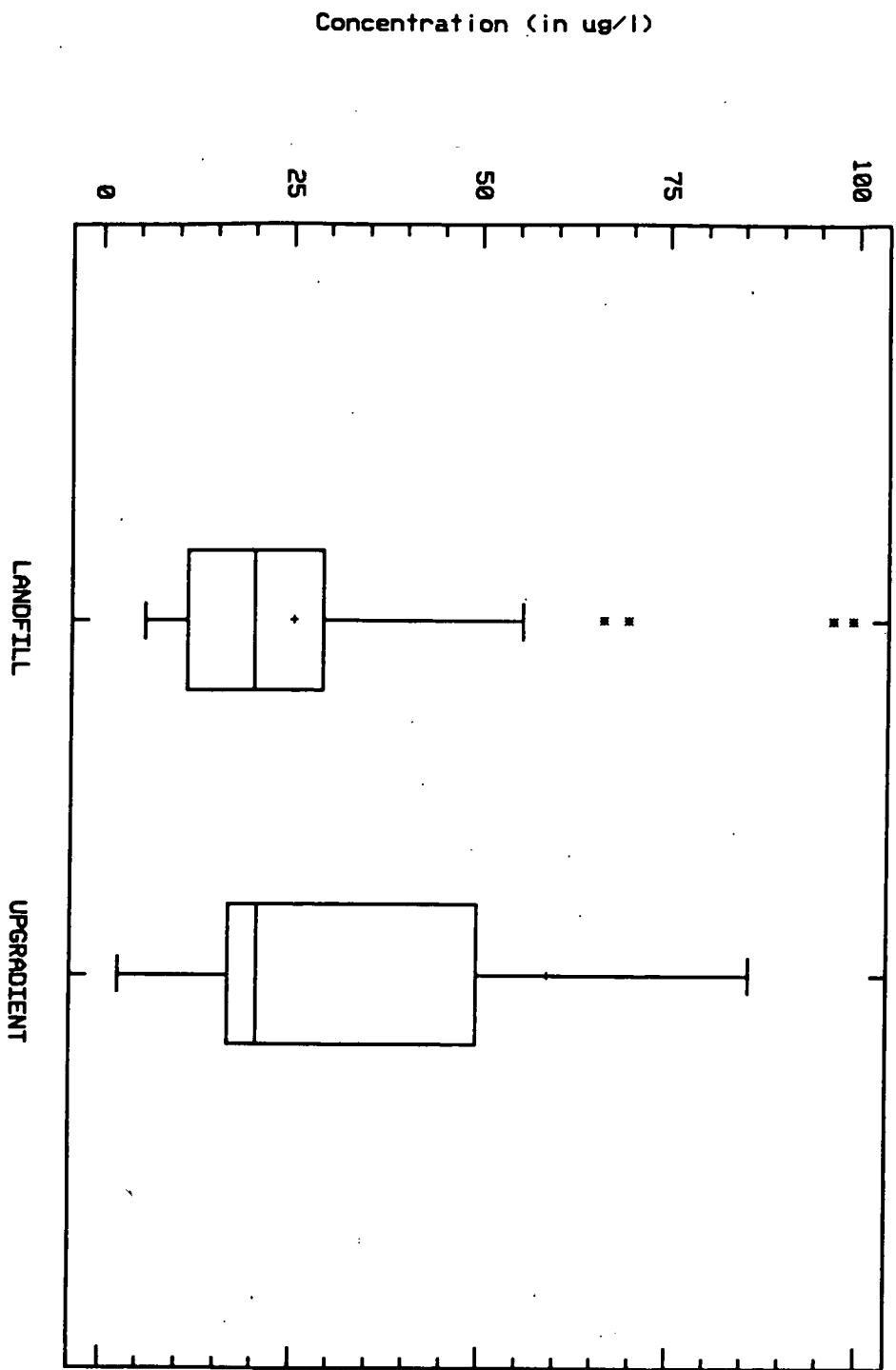
Manganese (Total): Groundwater
Background vs. OUT UHSU



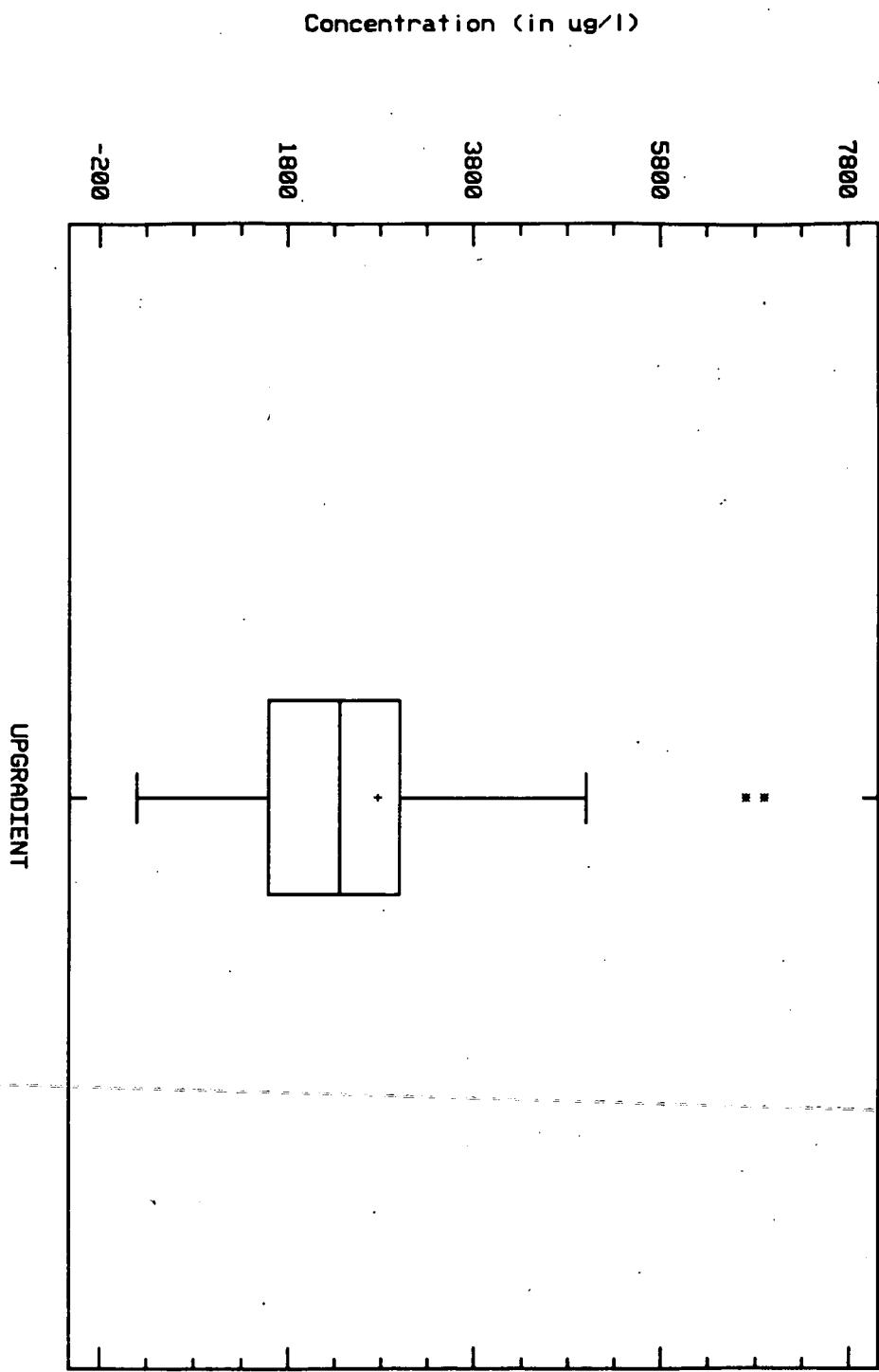
Nickel (Total) Groundwater
Background vs. OUT UHSU



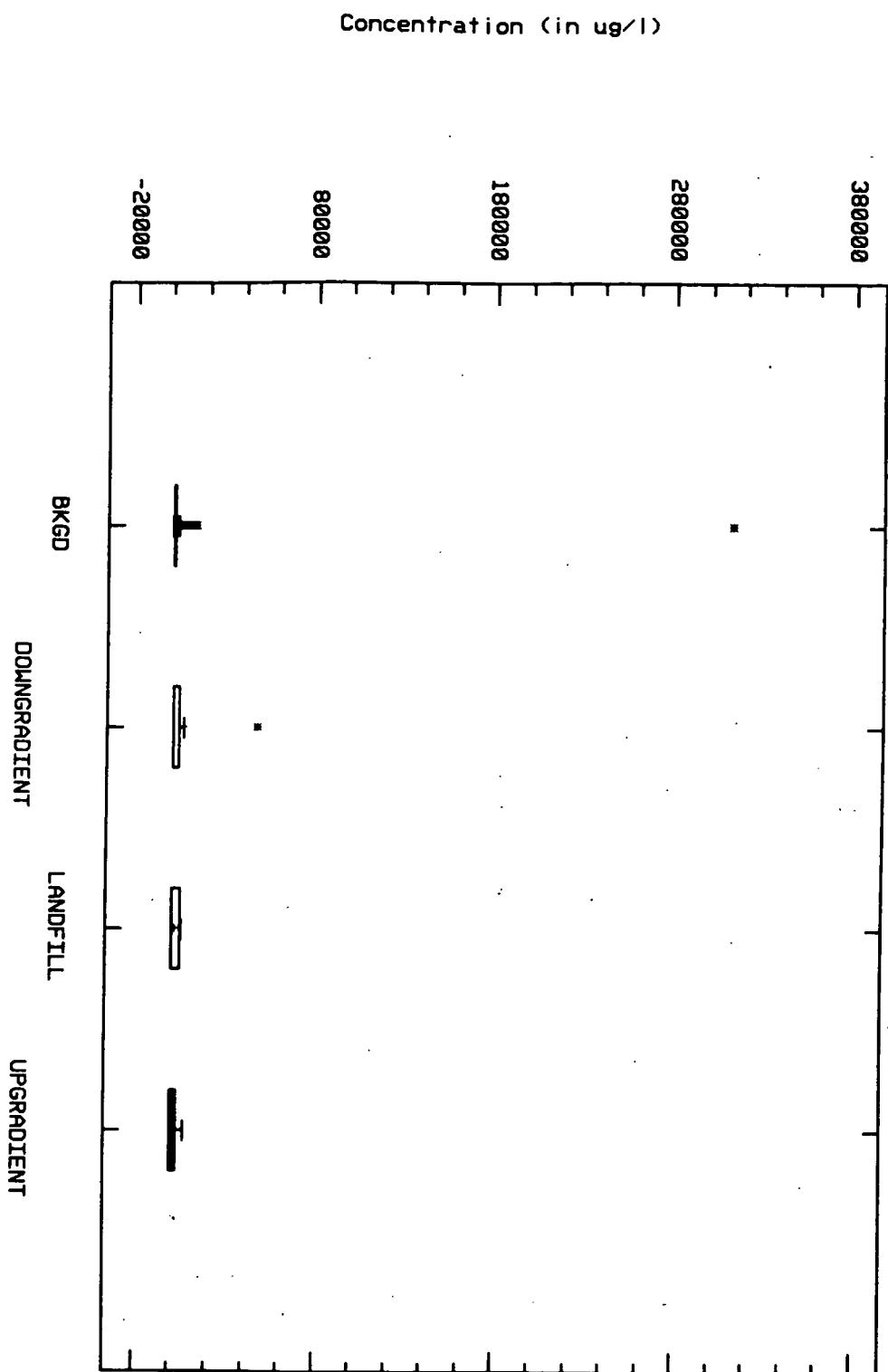
Nickel (Total): Groundwater
Background vs. OUT UHSU



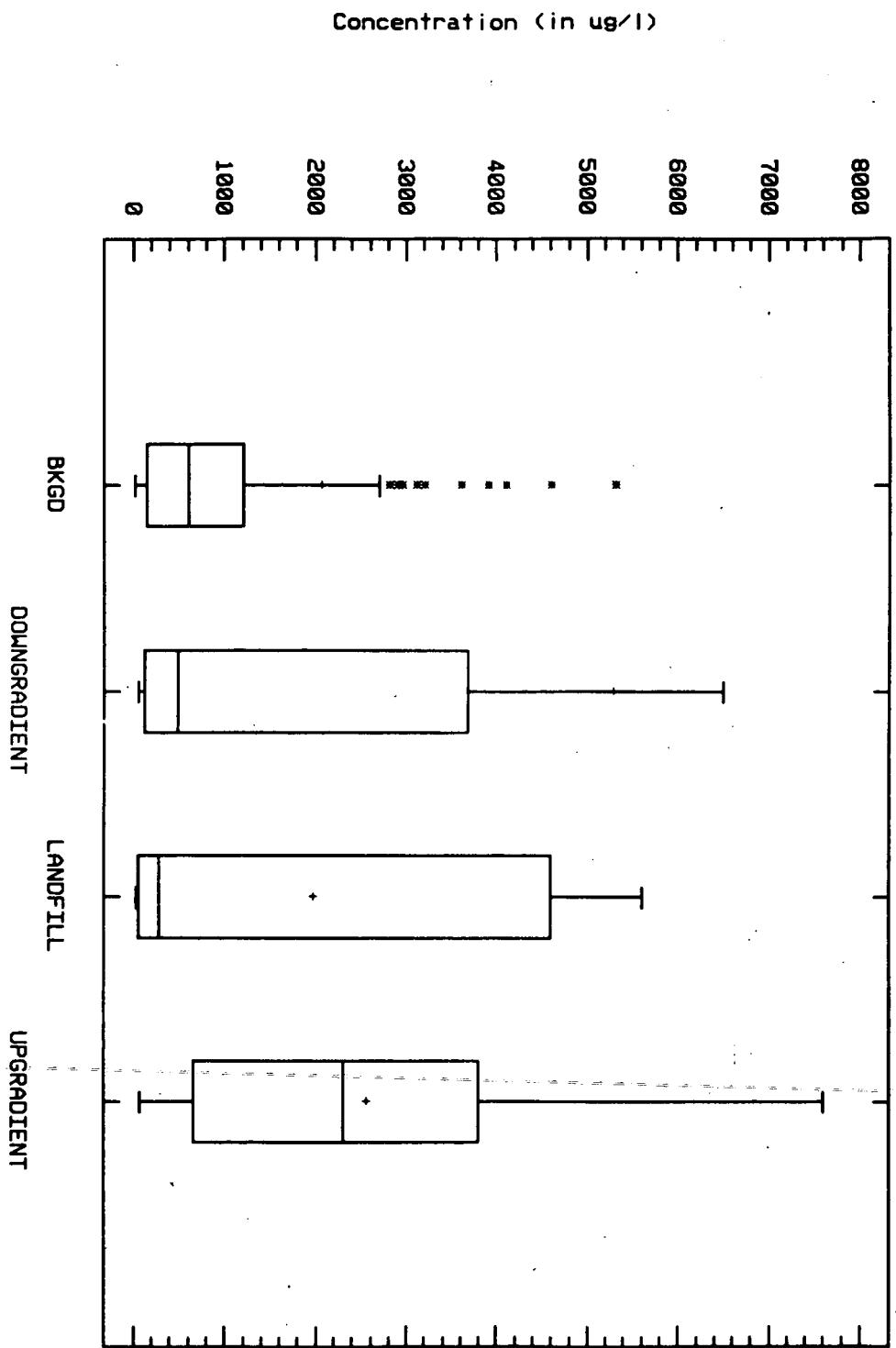
Nitrate (Total) Groundwater
Background vs. OUT UHSU



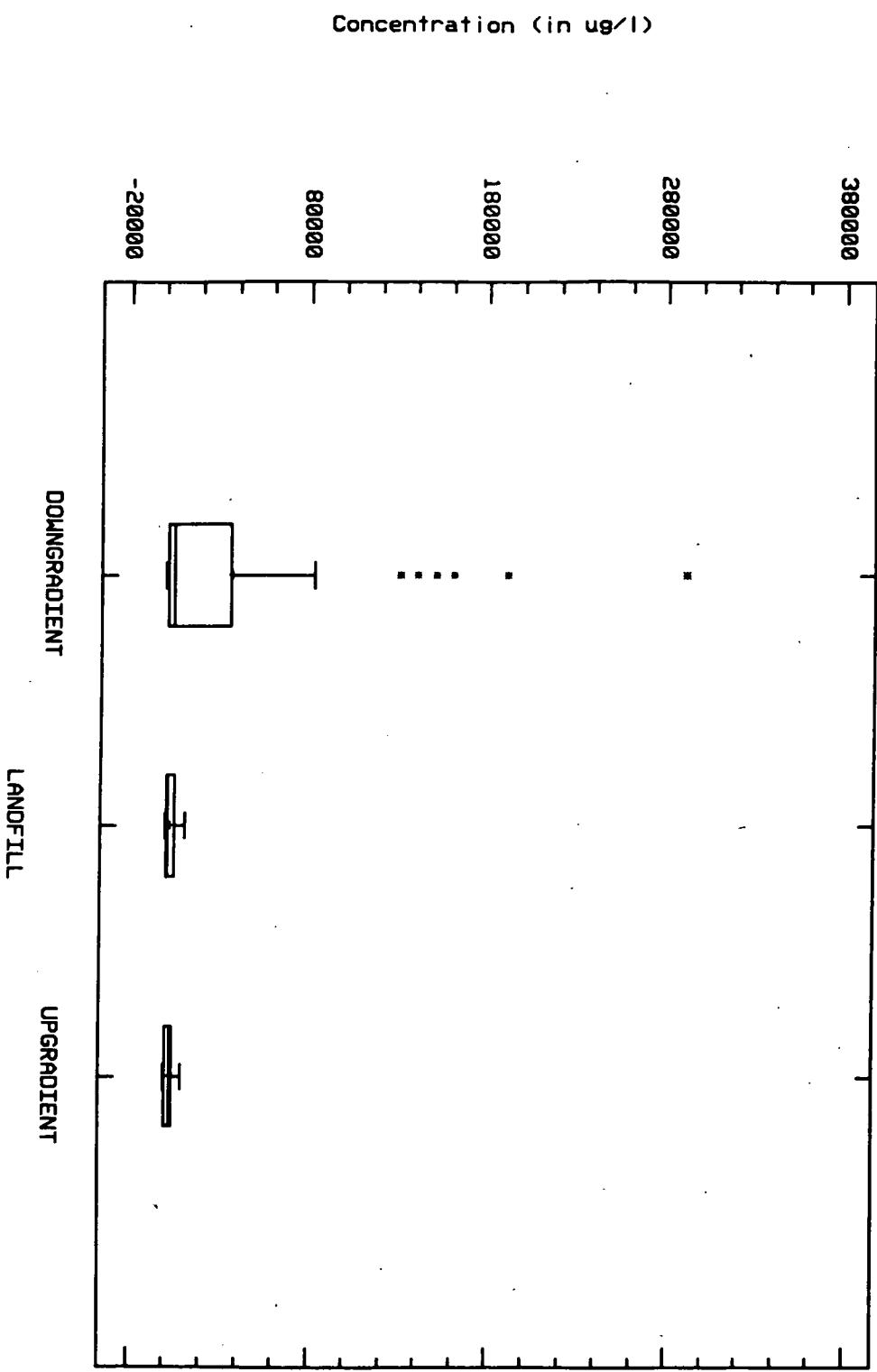
Nitrate/Nitrite (Total): Groundwater
Background vs. OUT UHSU



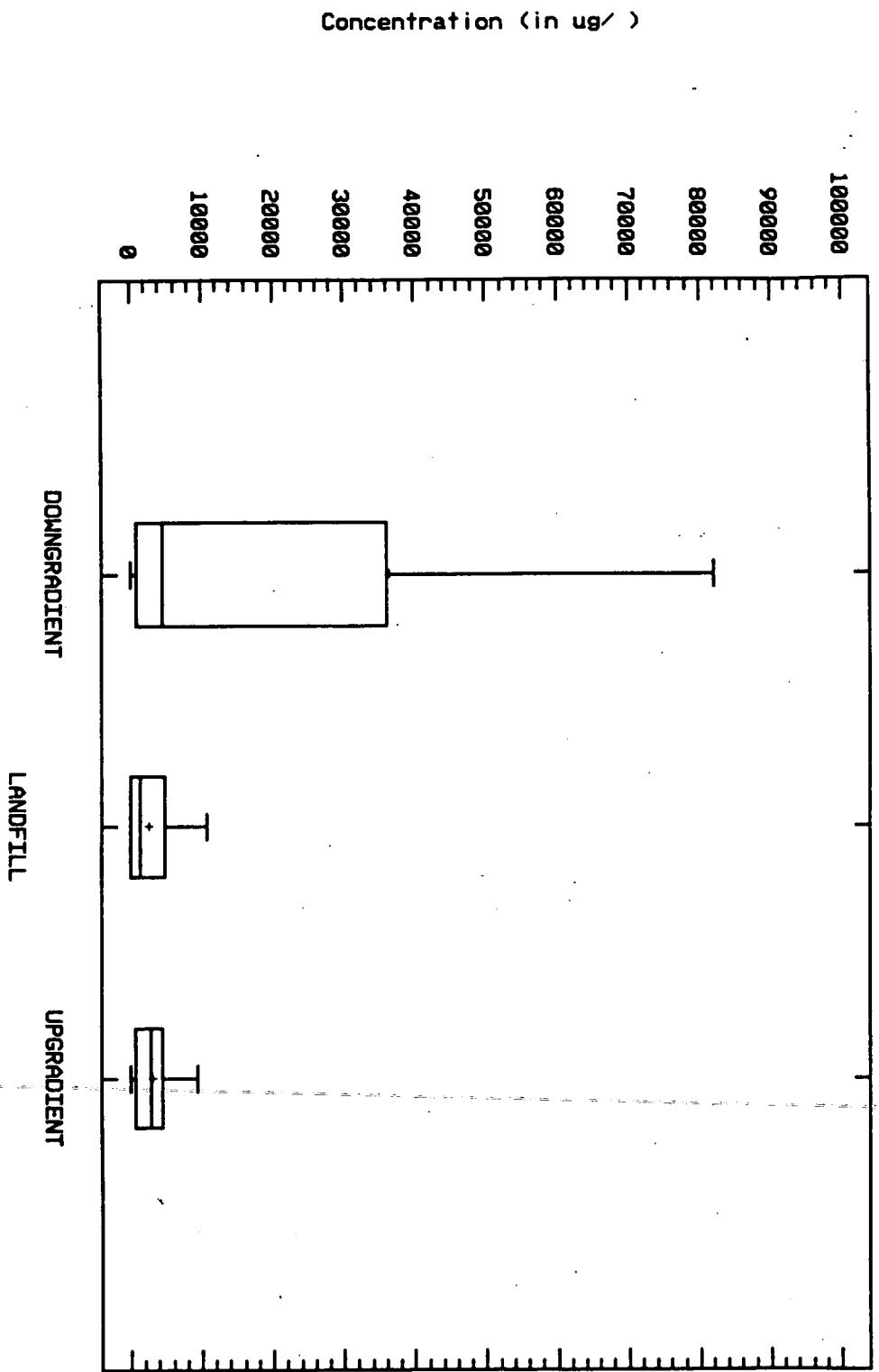
Nitrate/Nitrite (Total): Groundwater
Background vs. OUT UHSU



Nitrate/Nitrite H.C. (Total): Groundwater
Background vs. OUT UHSU

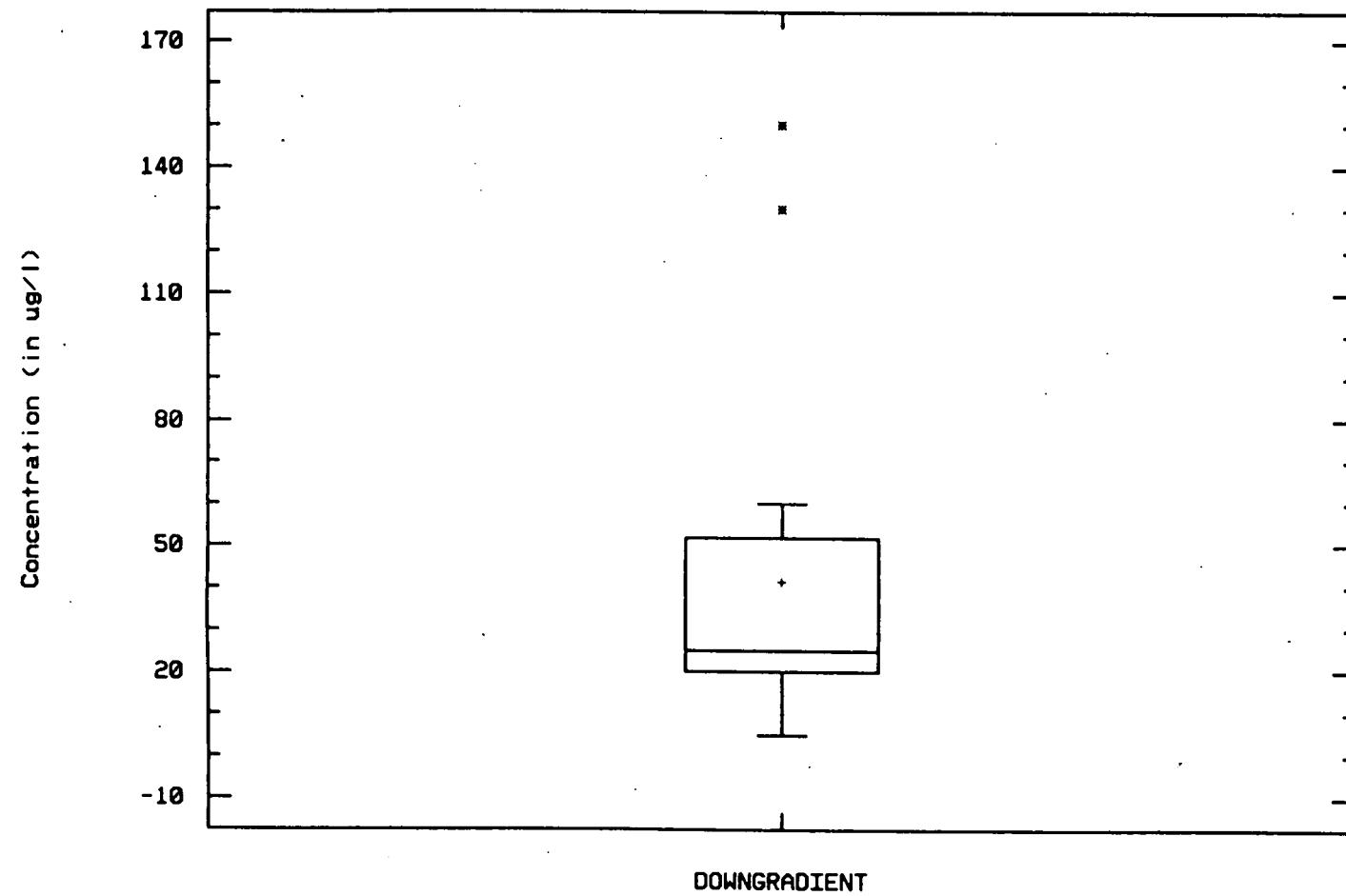


Nitrate/Nitrite-H.C. (Total): Groundwater
Background vs. 017 UHSU



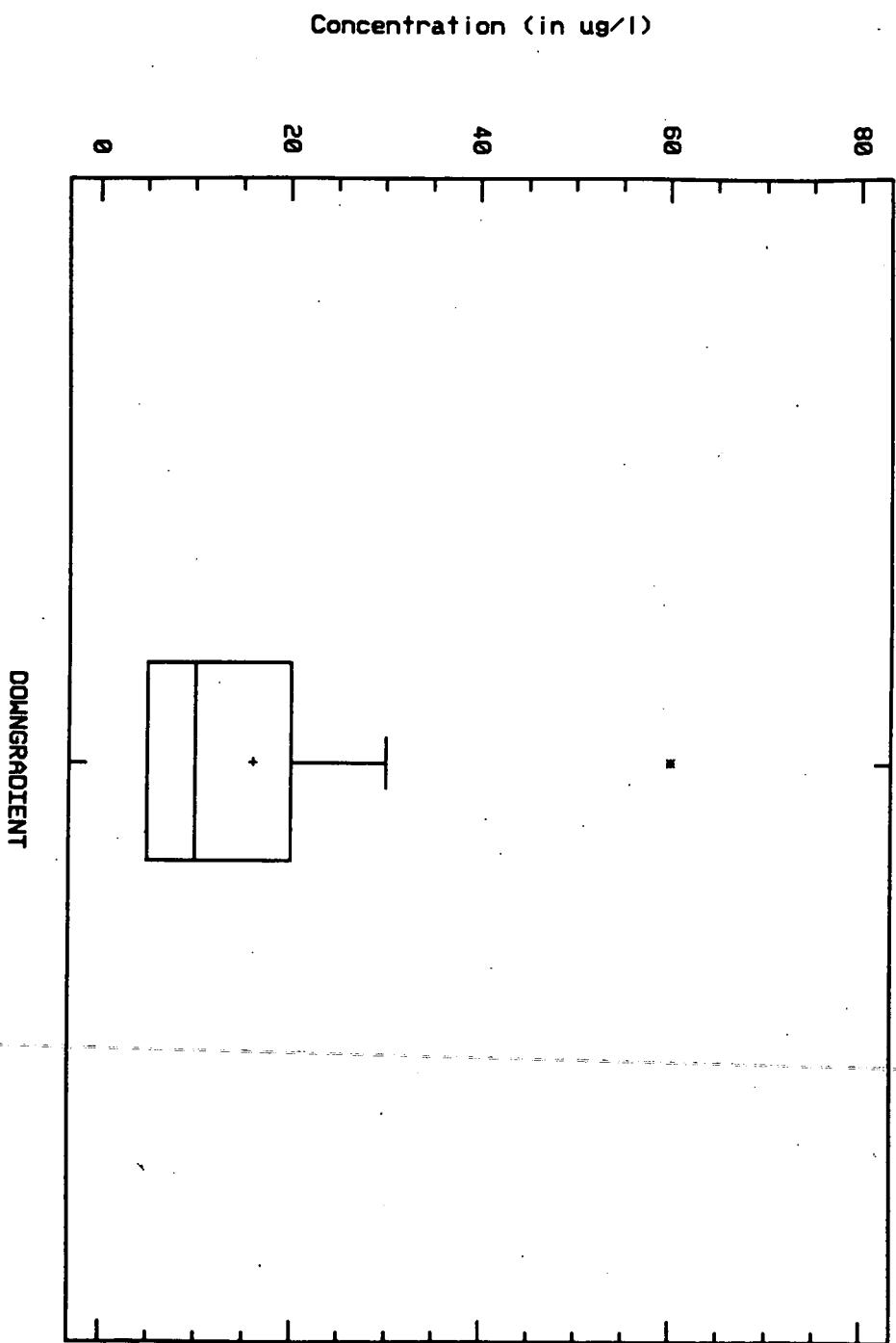
Orthophosphate (Total): Groundwater

Background vs. OU7 UHSU

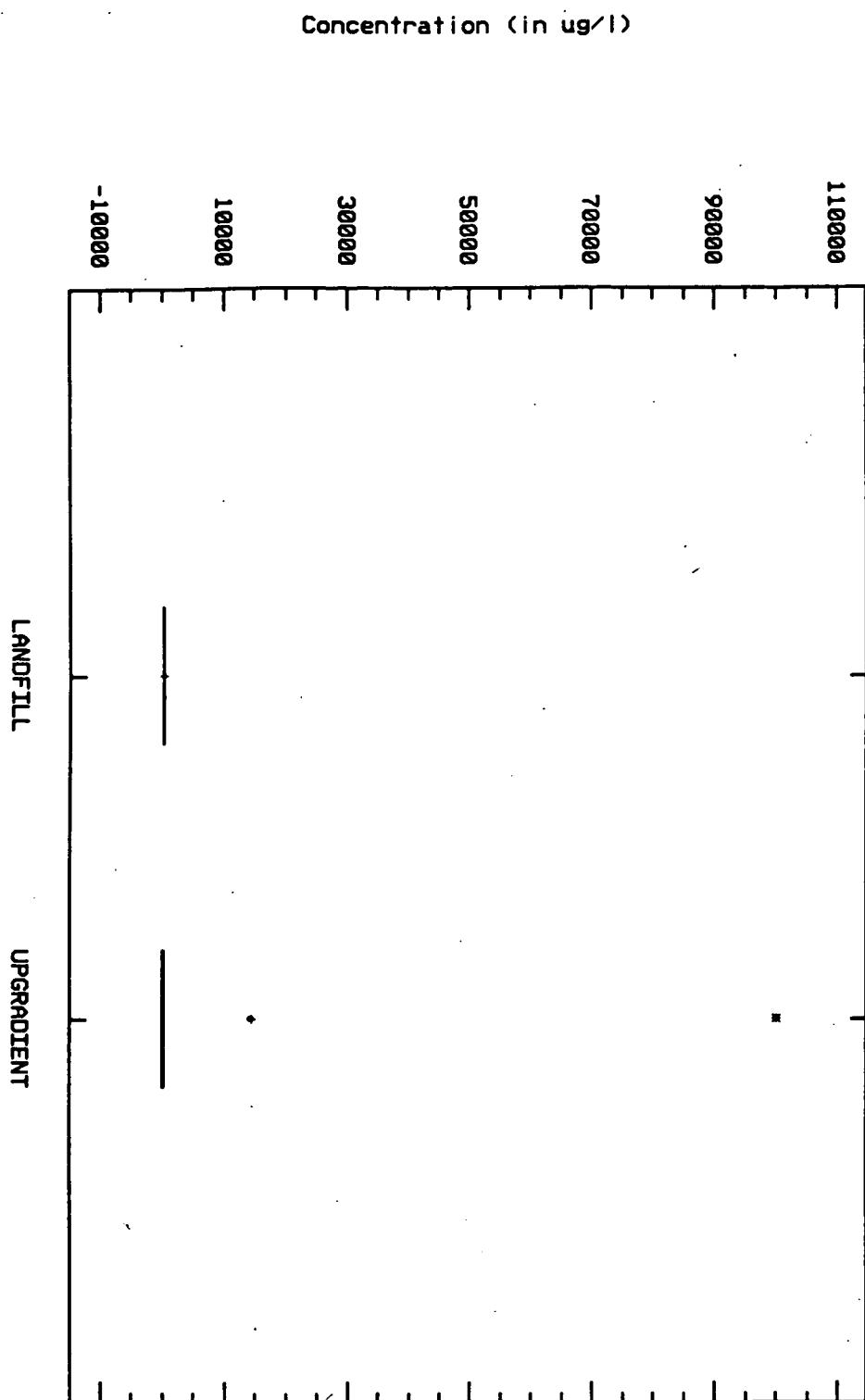


Orthophosphate H.C. (Total): Groundwater

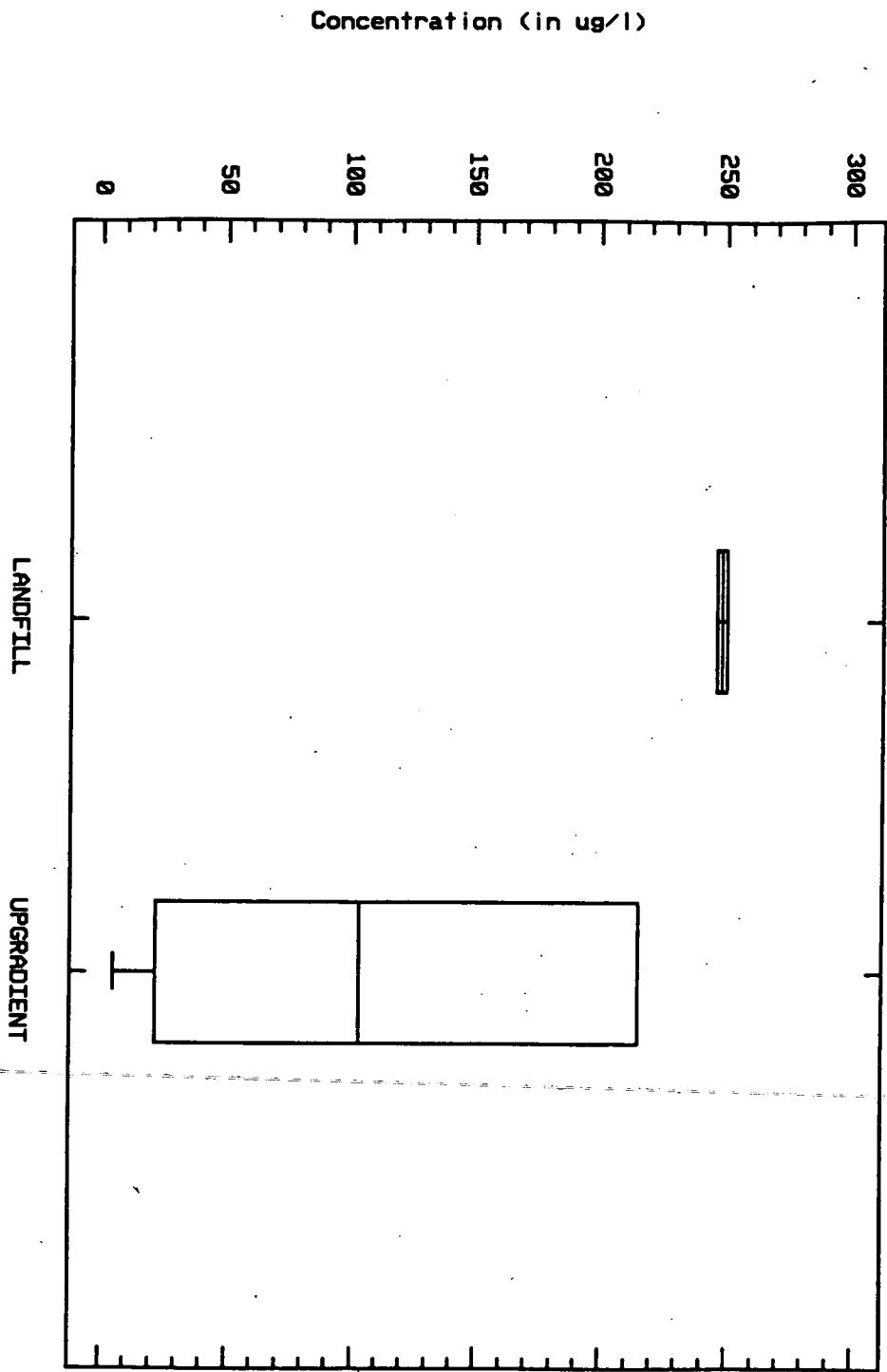
Background vs. OUT UHSU



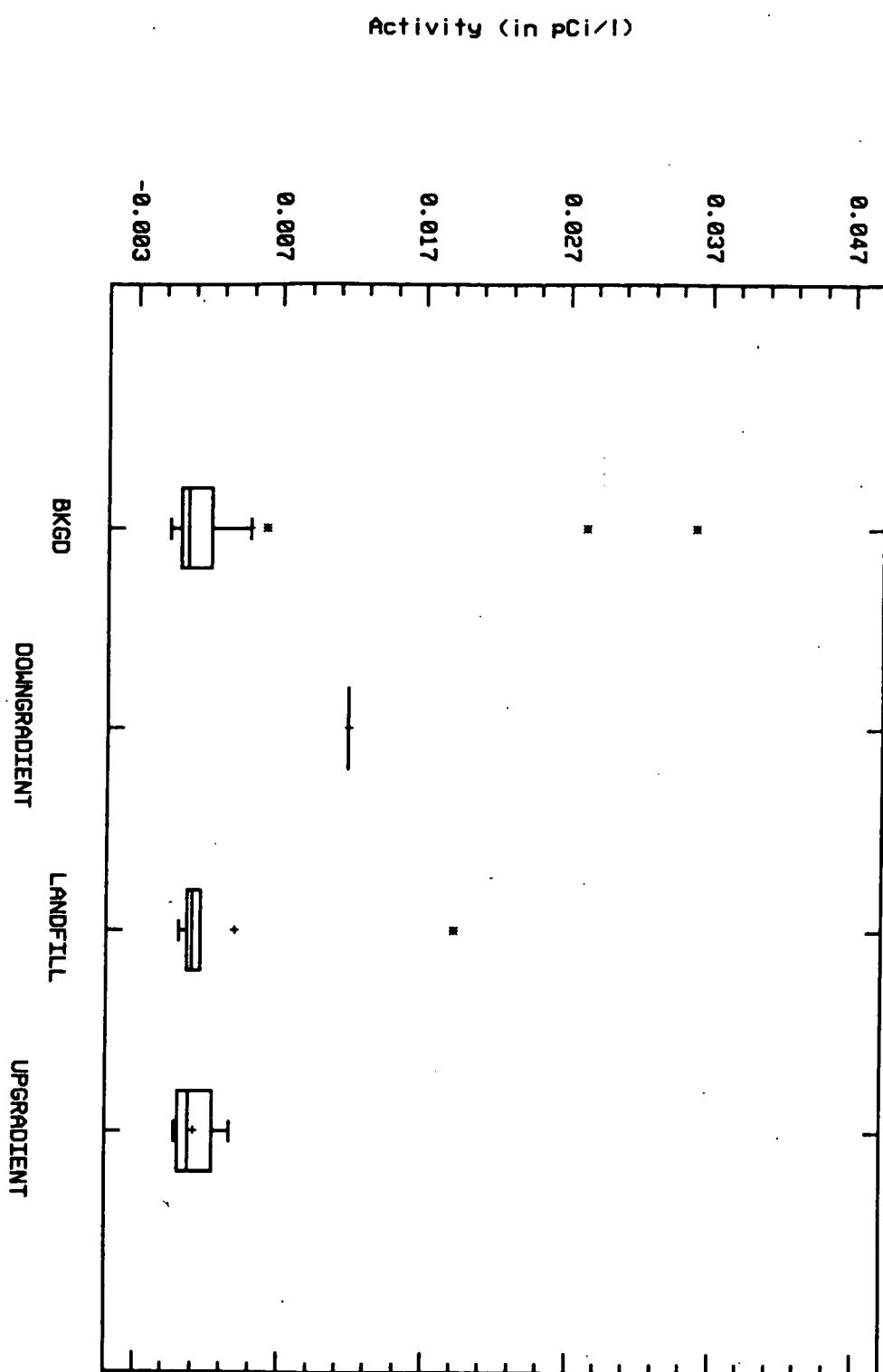
Phosphorus (Total): Groundwater
Background vs. OUT UHSU



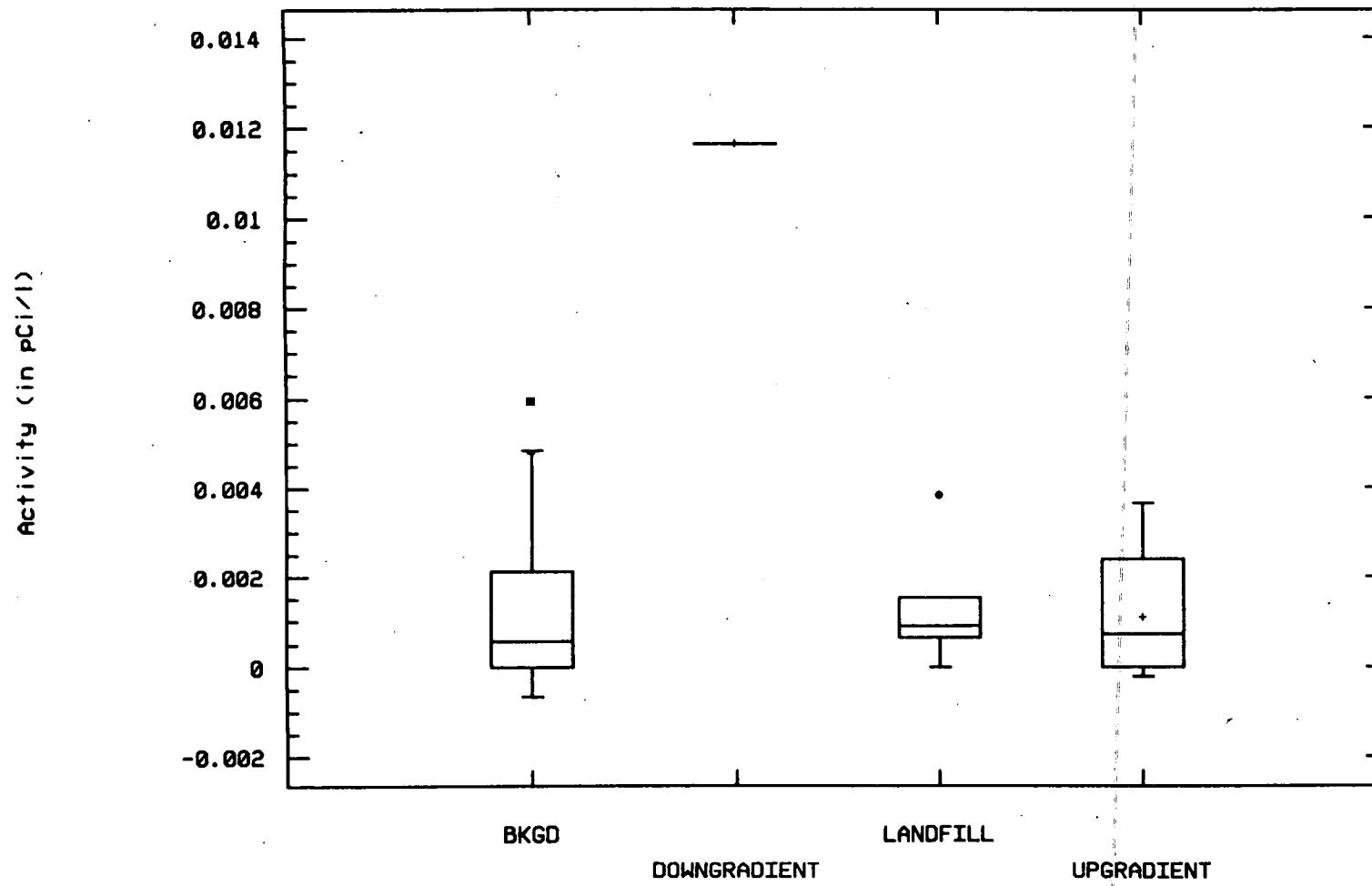
Phosphorus (Total): Groundwater
Background vs. 017 UHSU



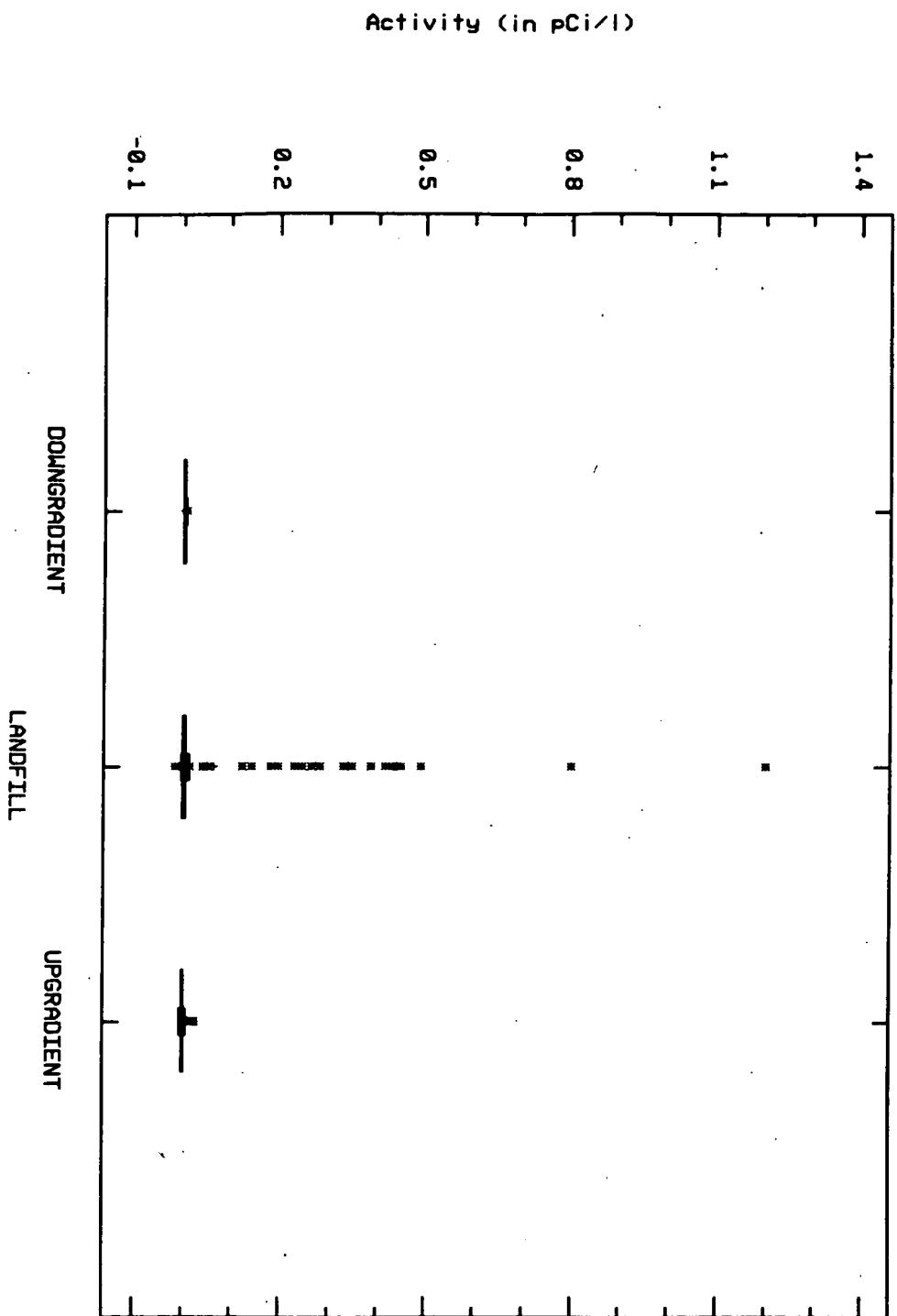
Plutonium-238 (Total): Groundwater
Background vs. 017 UHSU



Plutonium-238 (Total): Groundwater
Background vs. OU7 UHSU

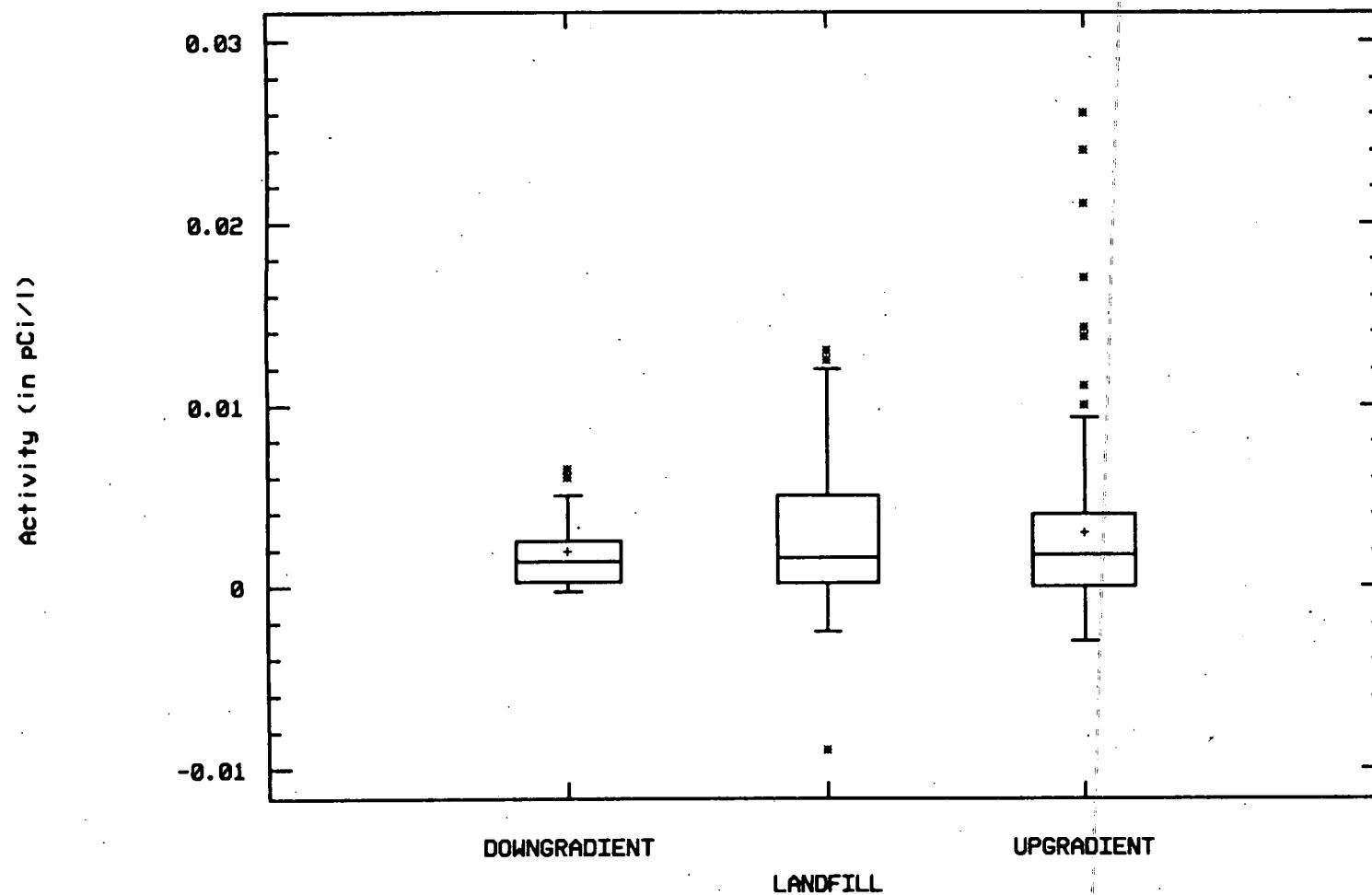


Plutonium-239/240 (Total): Groundwater
Background vs. OUT UHSU

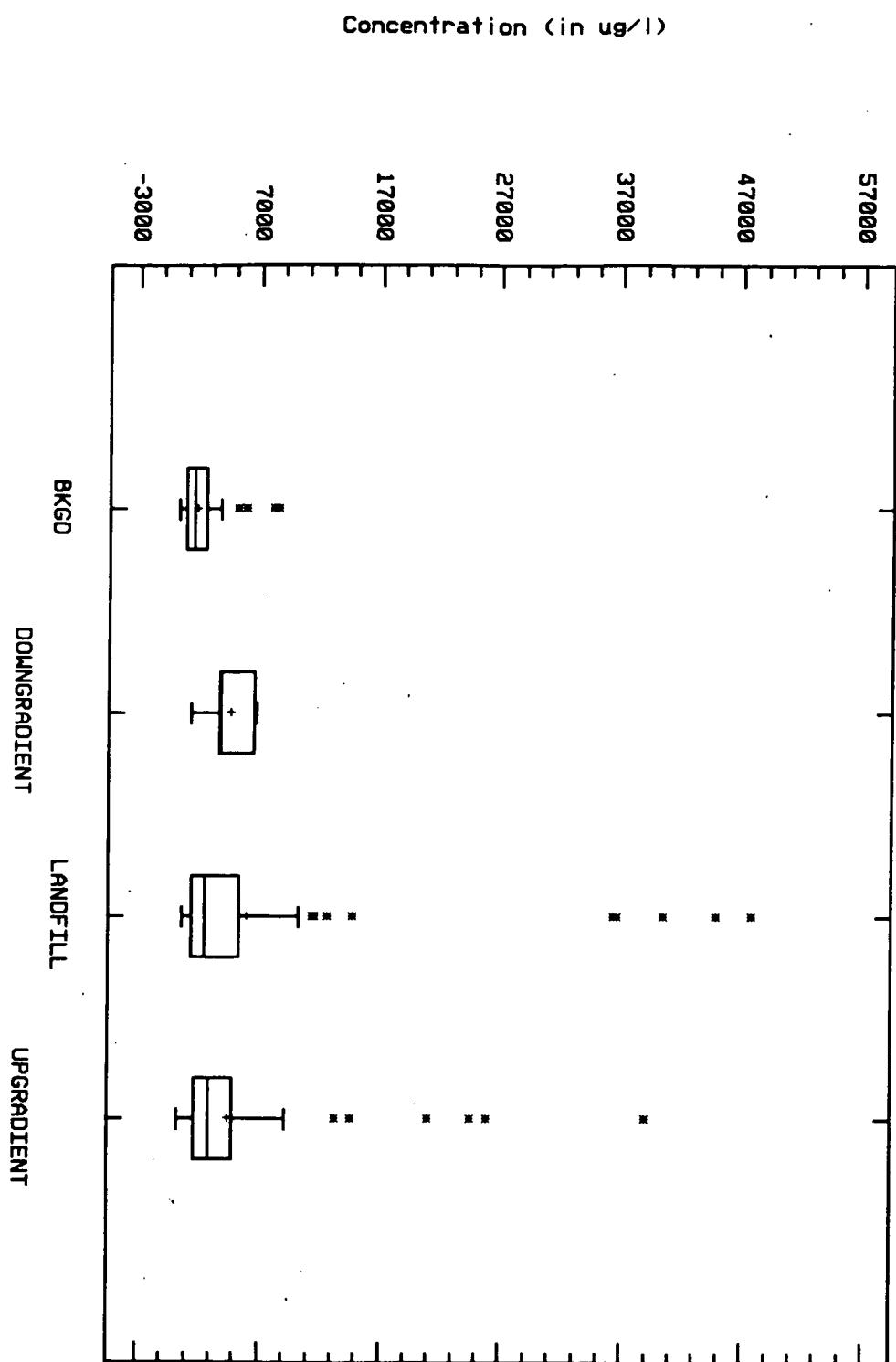


Plutonium-239/240 (Total): Groundwater

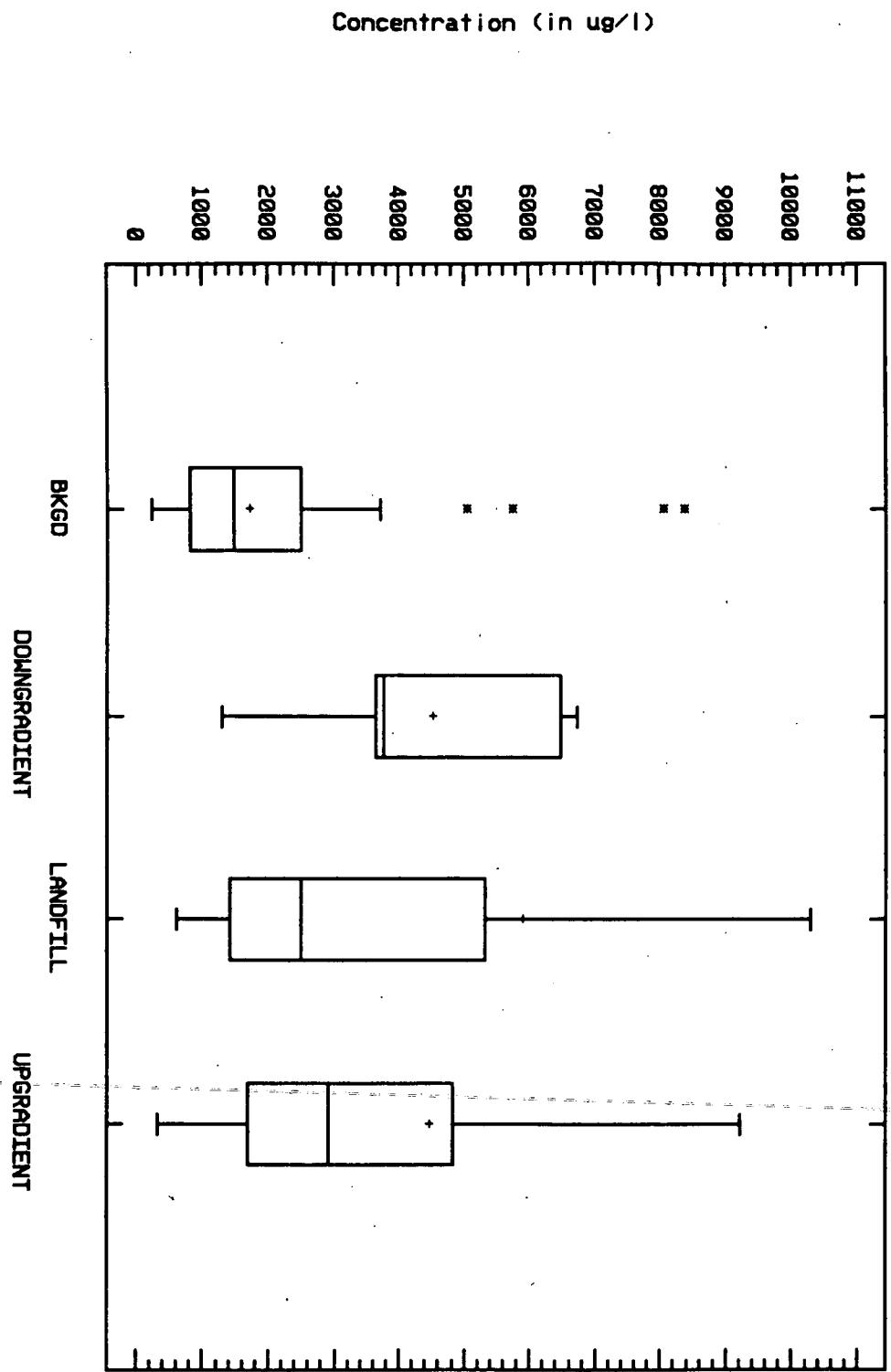
Background vs. OUT UHSU



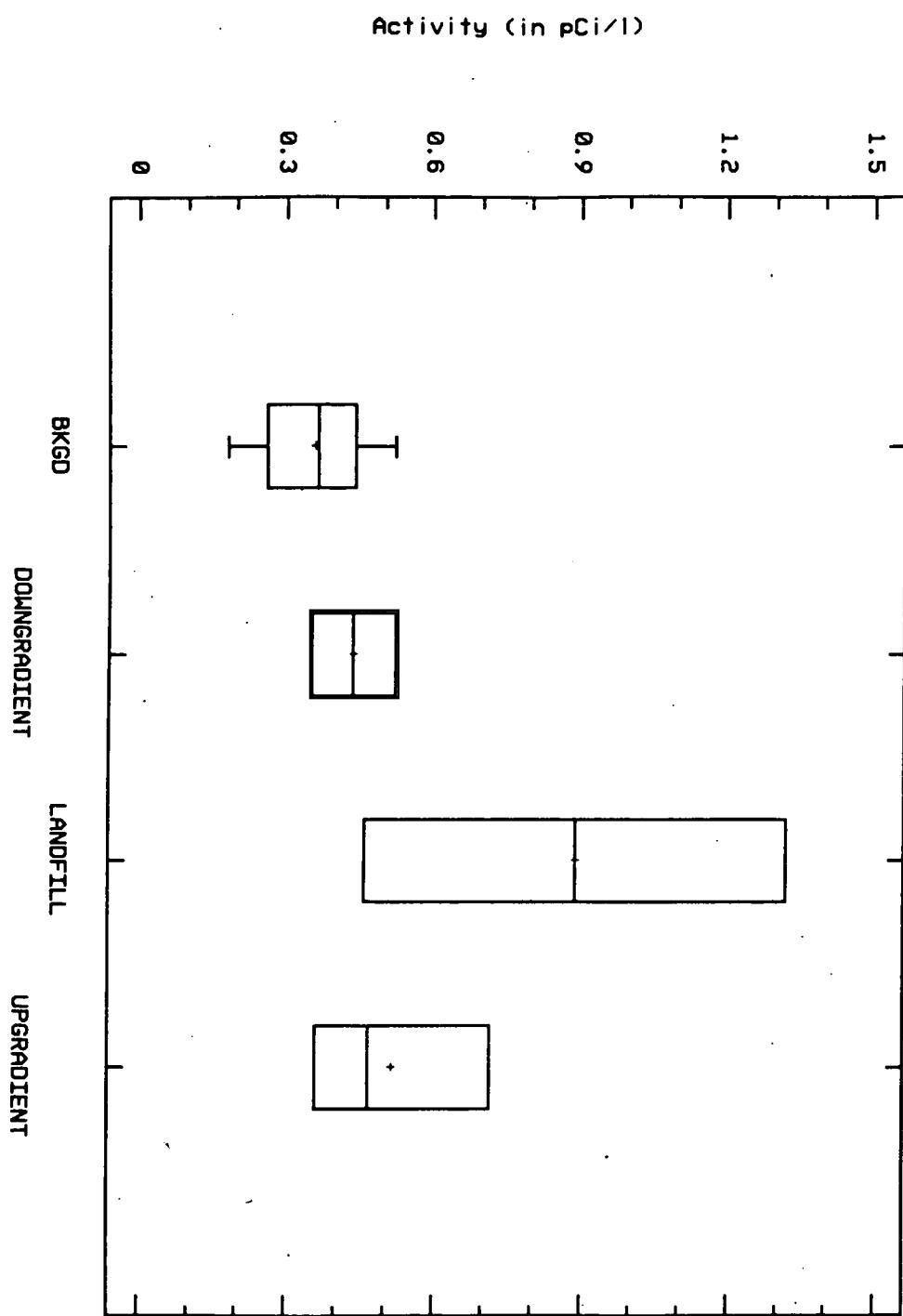
Potassium (Total): Groundwater
Background vs. OUT UHSU



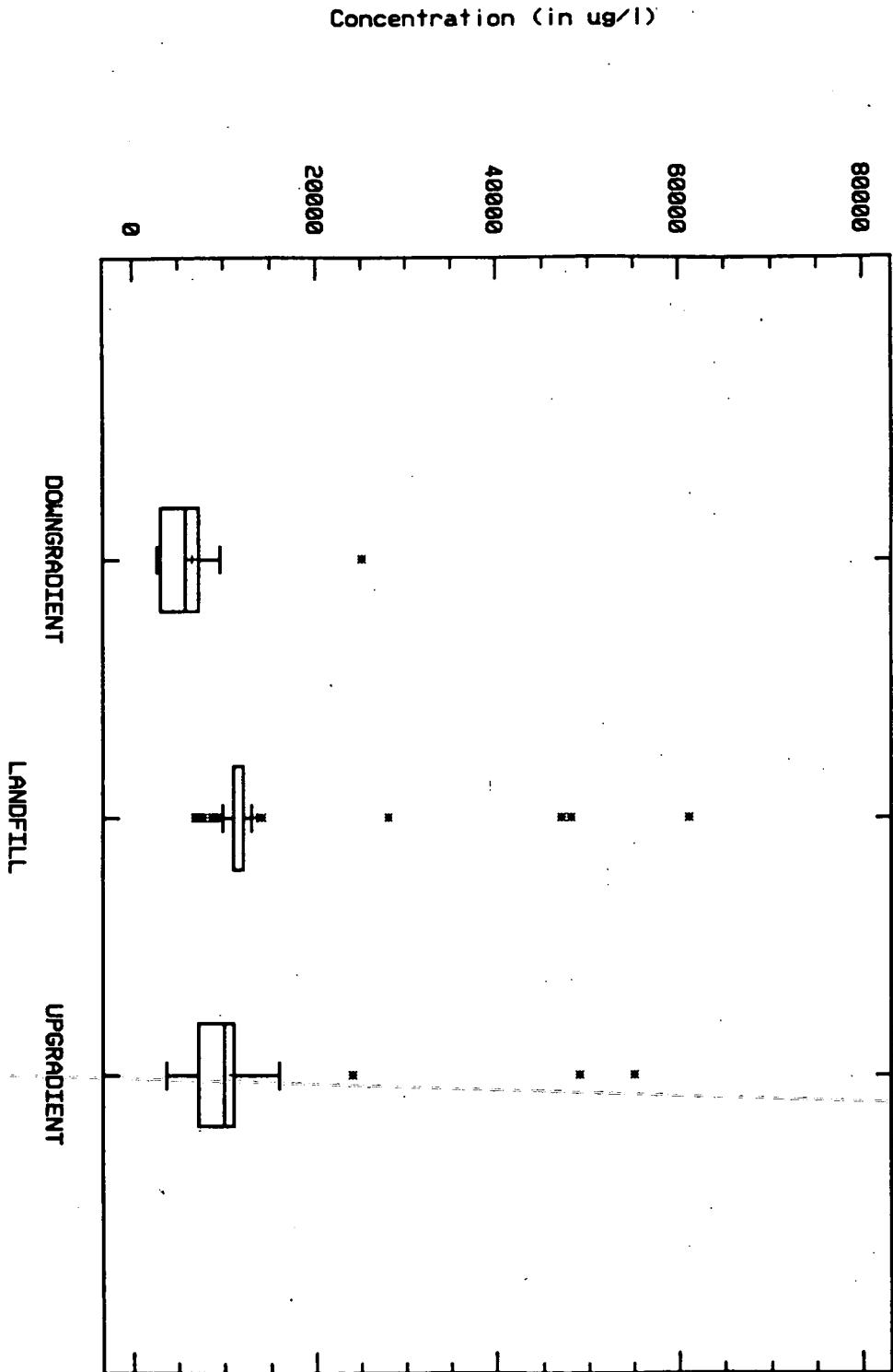
Potassium (Total): Groundwater
Background vs. 017 UHSU



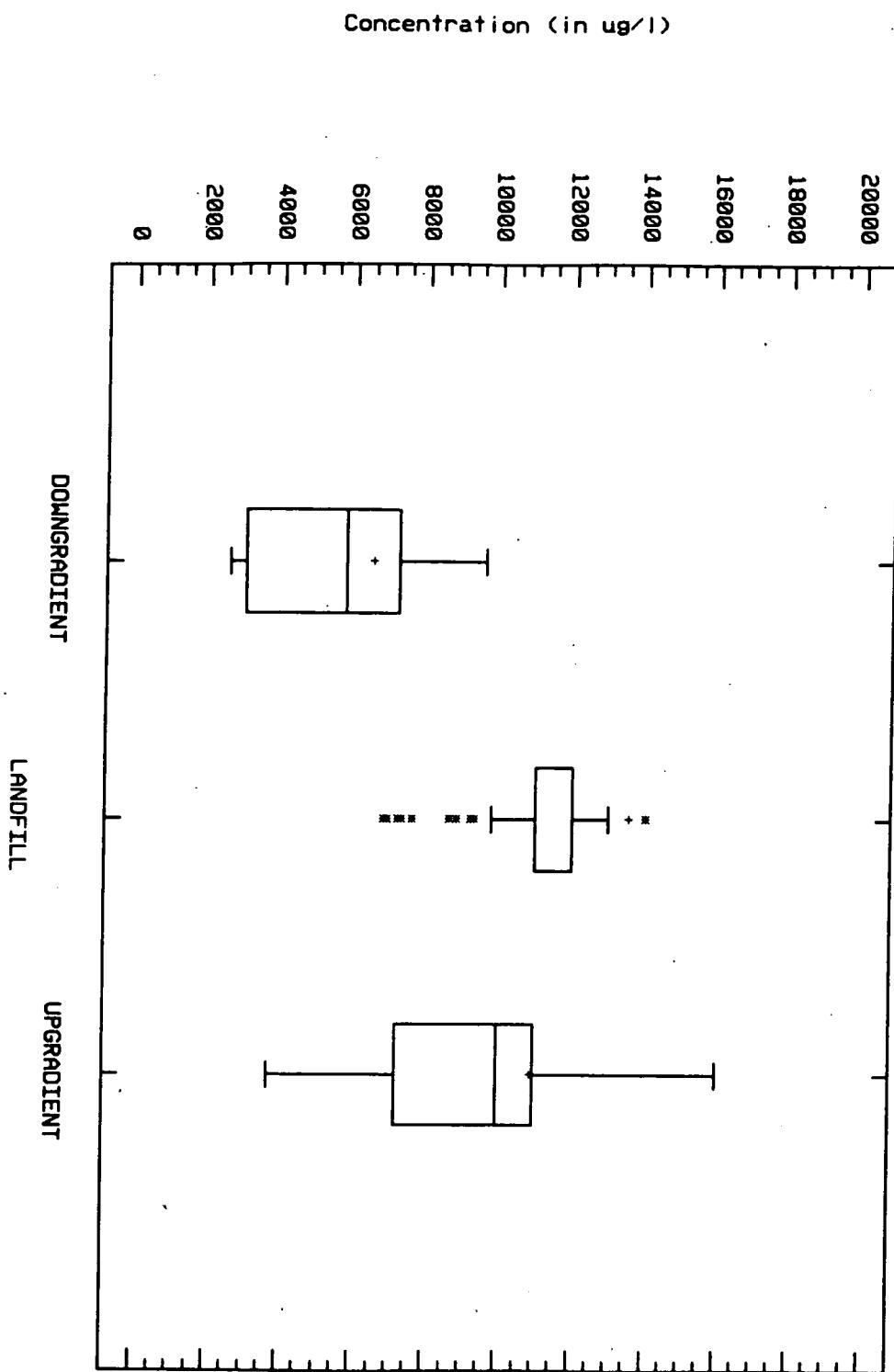
Radium-226 (Total): Groundwater
Background vs. 017 UHSU

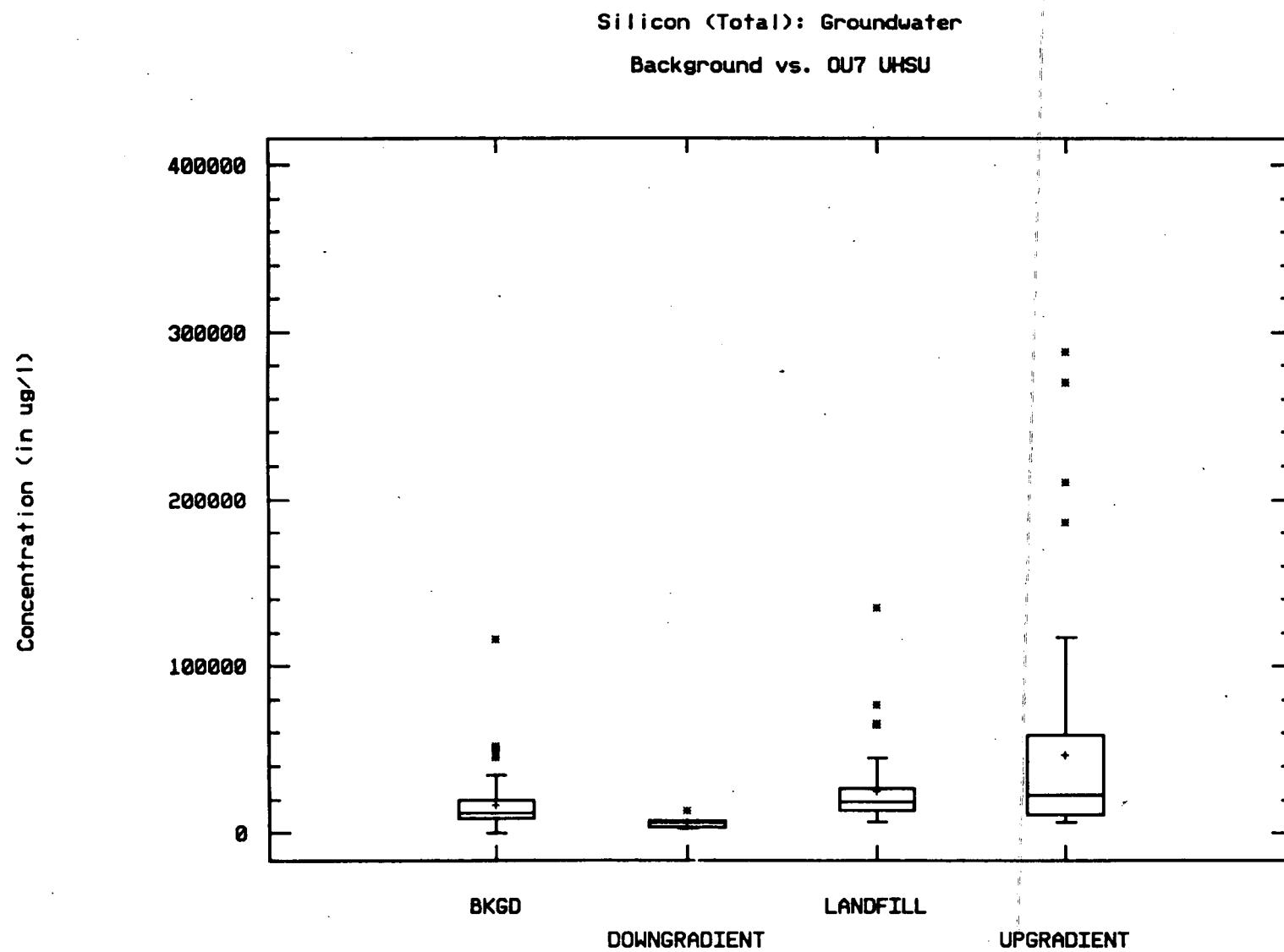


Silica Dissolved (Total): Groundwater
Background vs. OUT UHSU

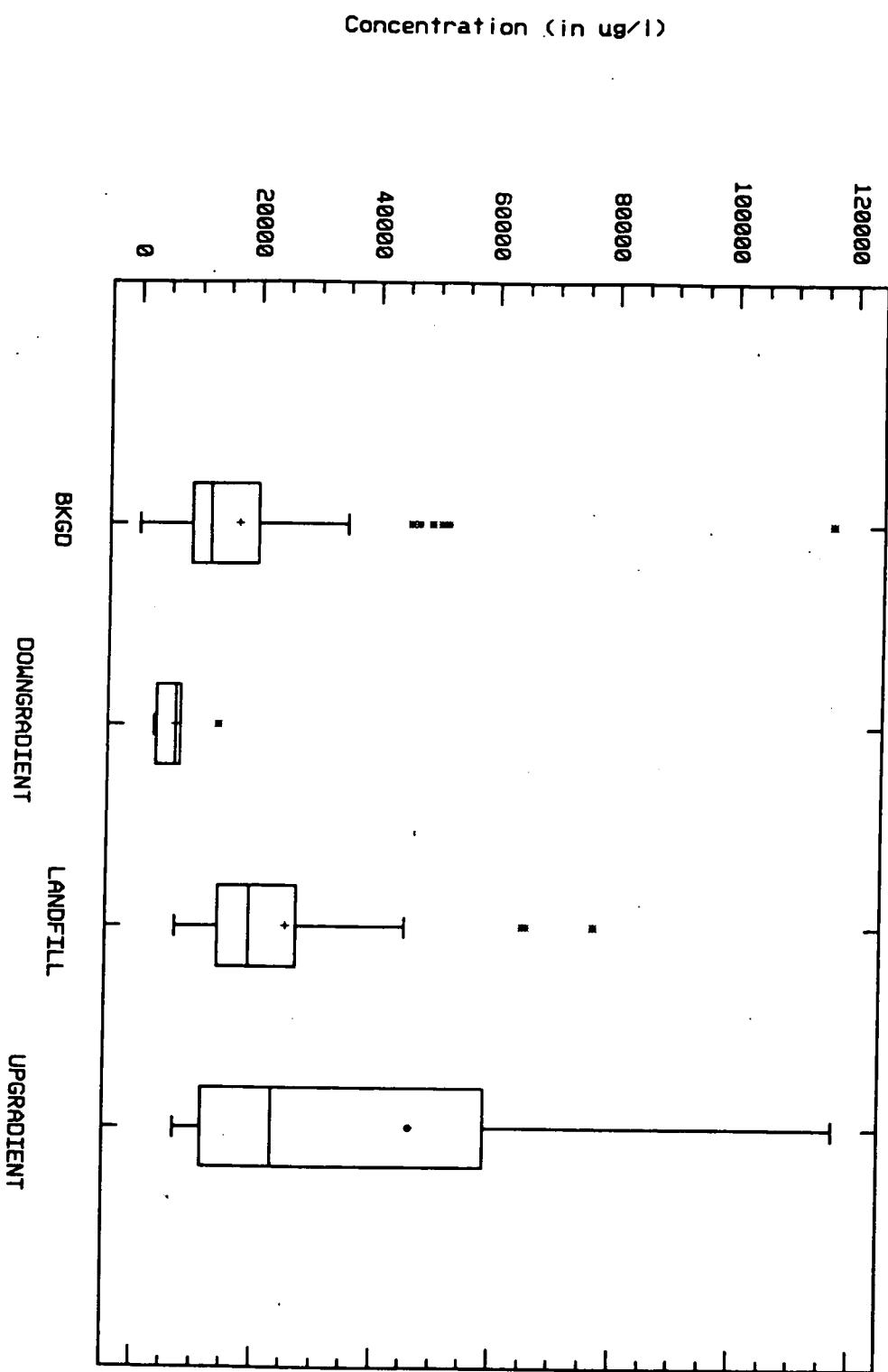


Silica Dissolved (Total): Groundwater
Background vs. OUT UHSU

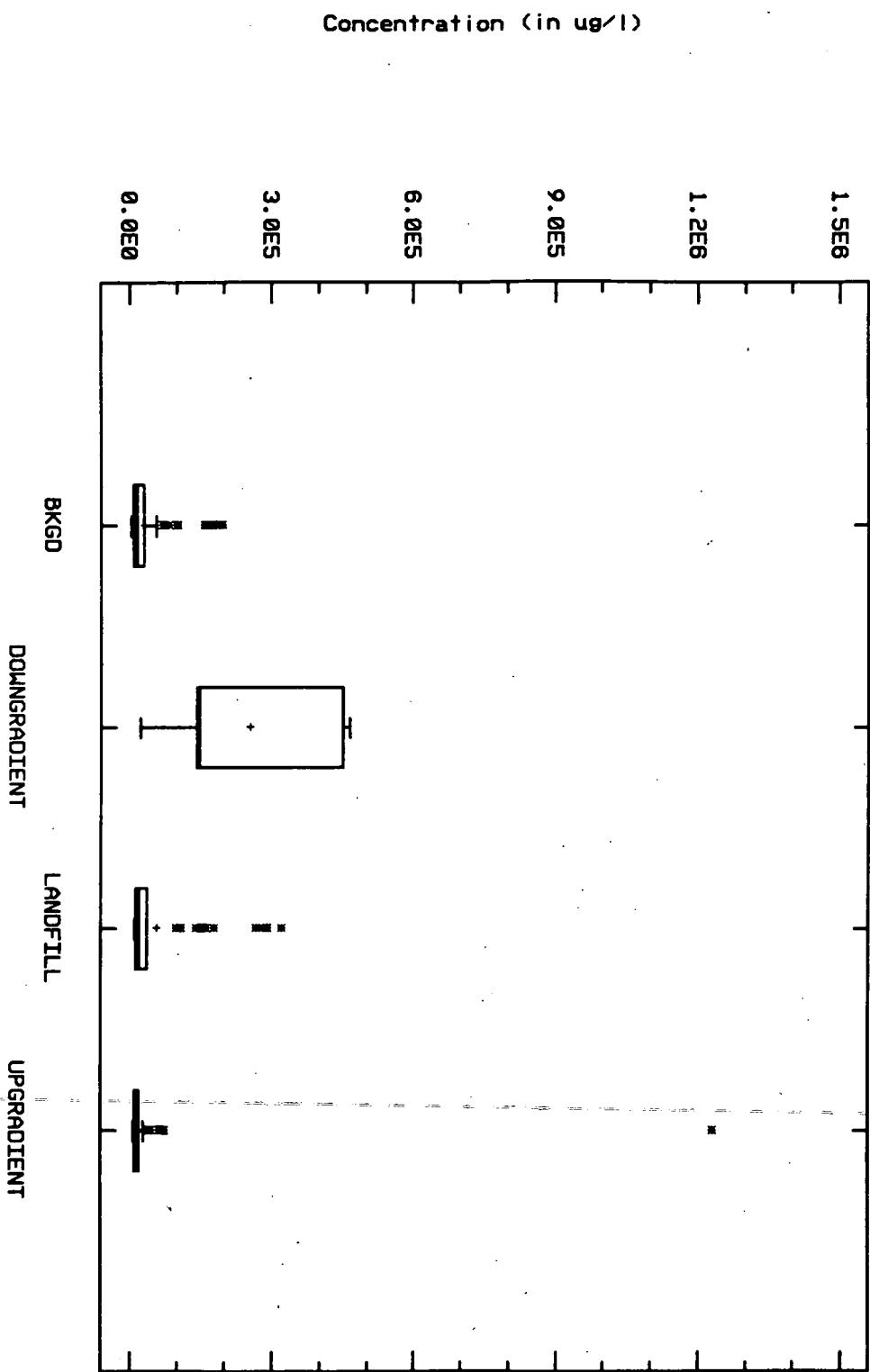




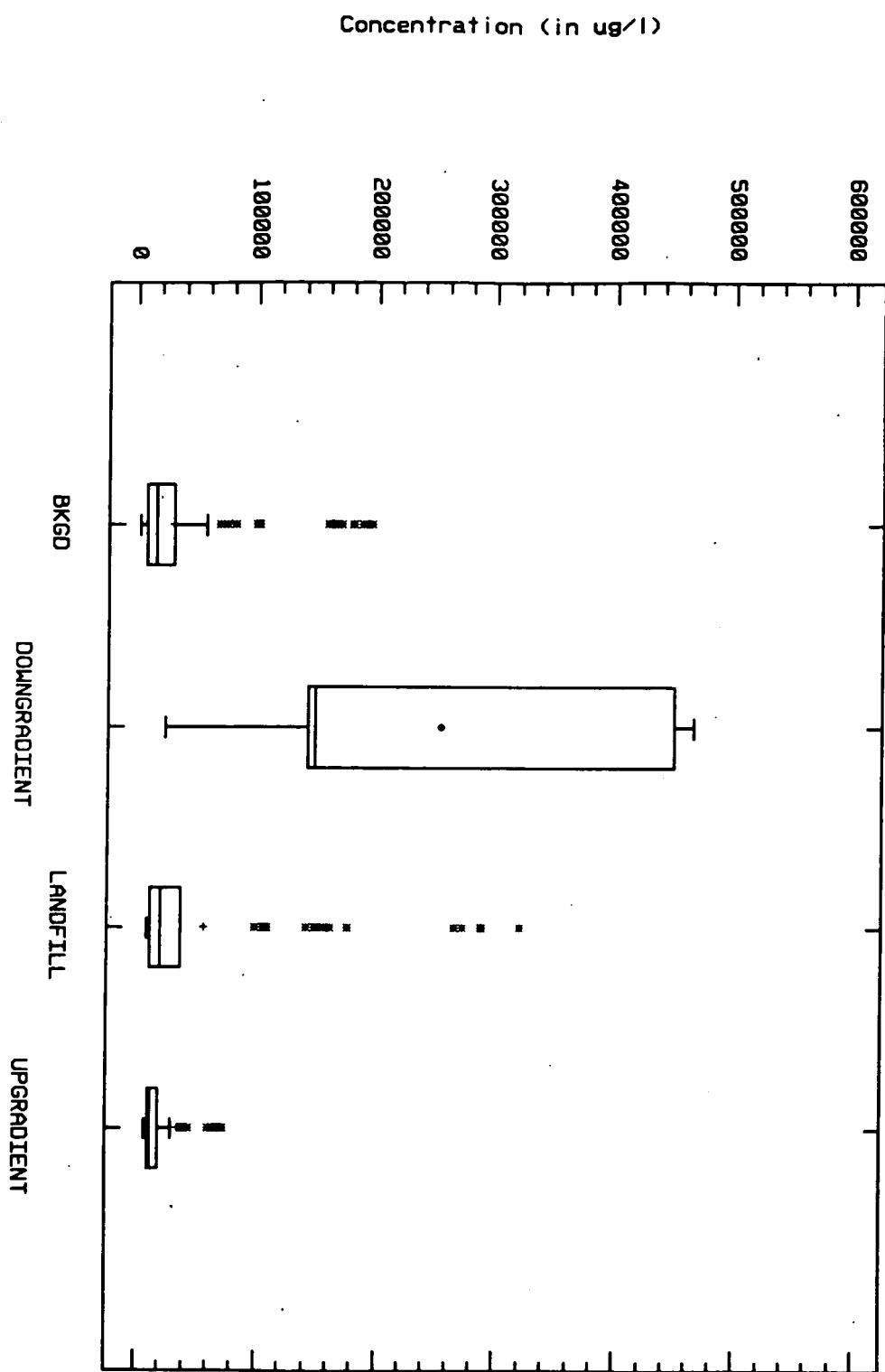
Silicon (Total): Groundwater
Background vs. OUT UHSU



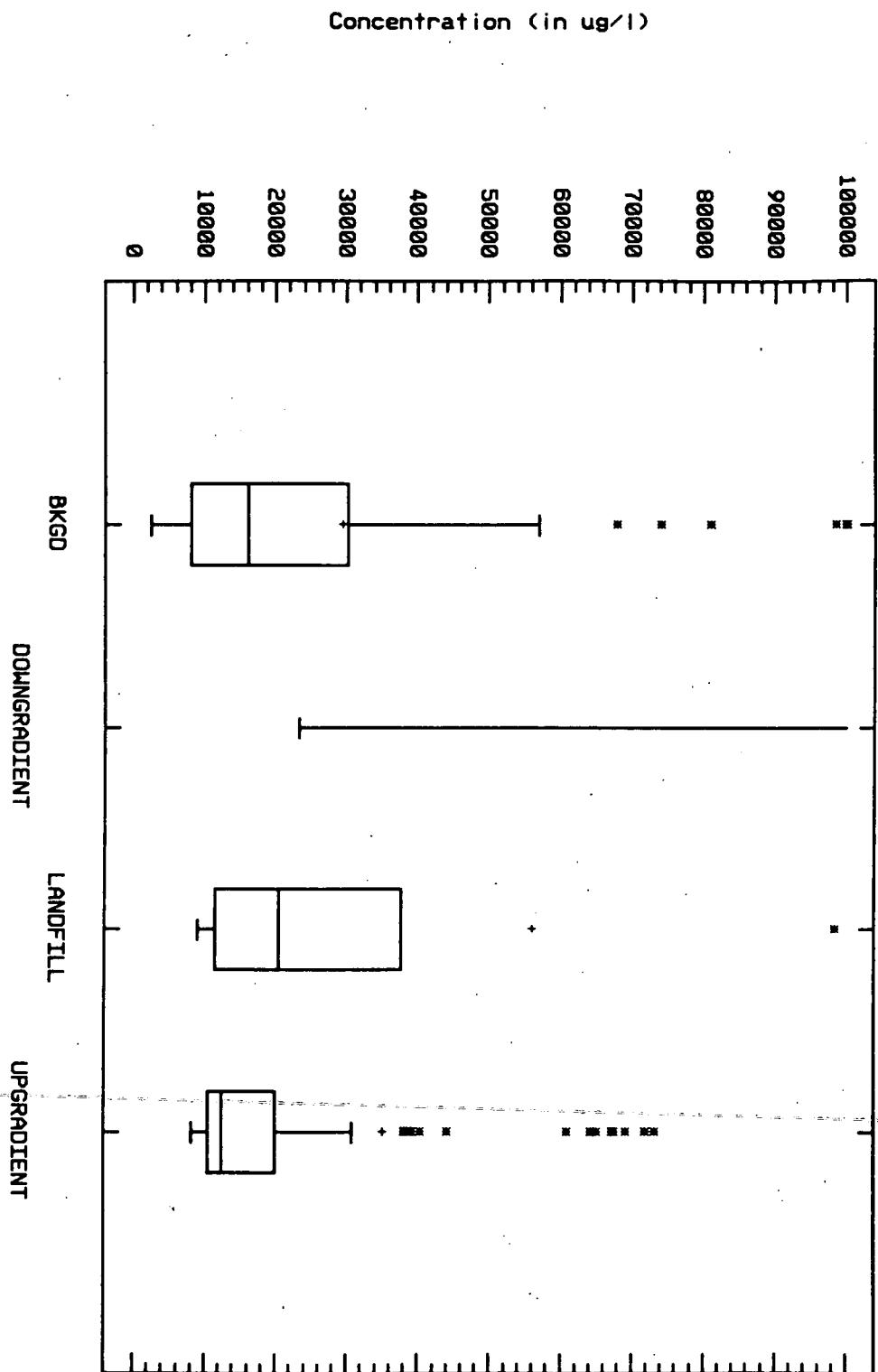
Sodium (Total): Groundwater
Background vs. OUT UHSU



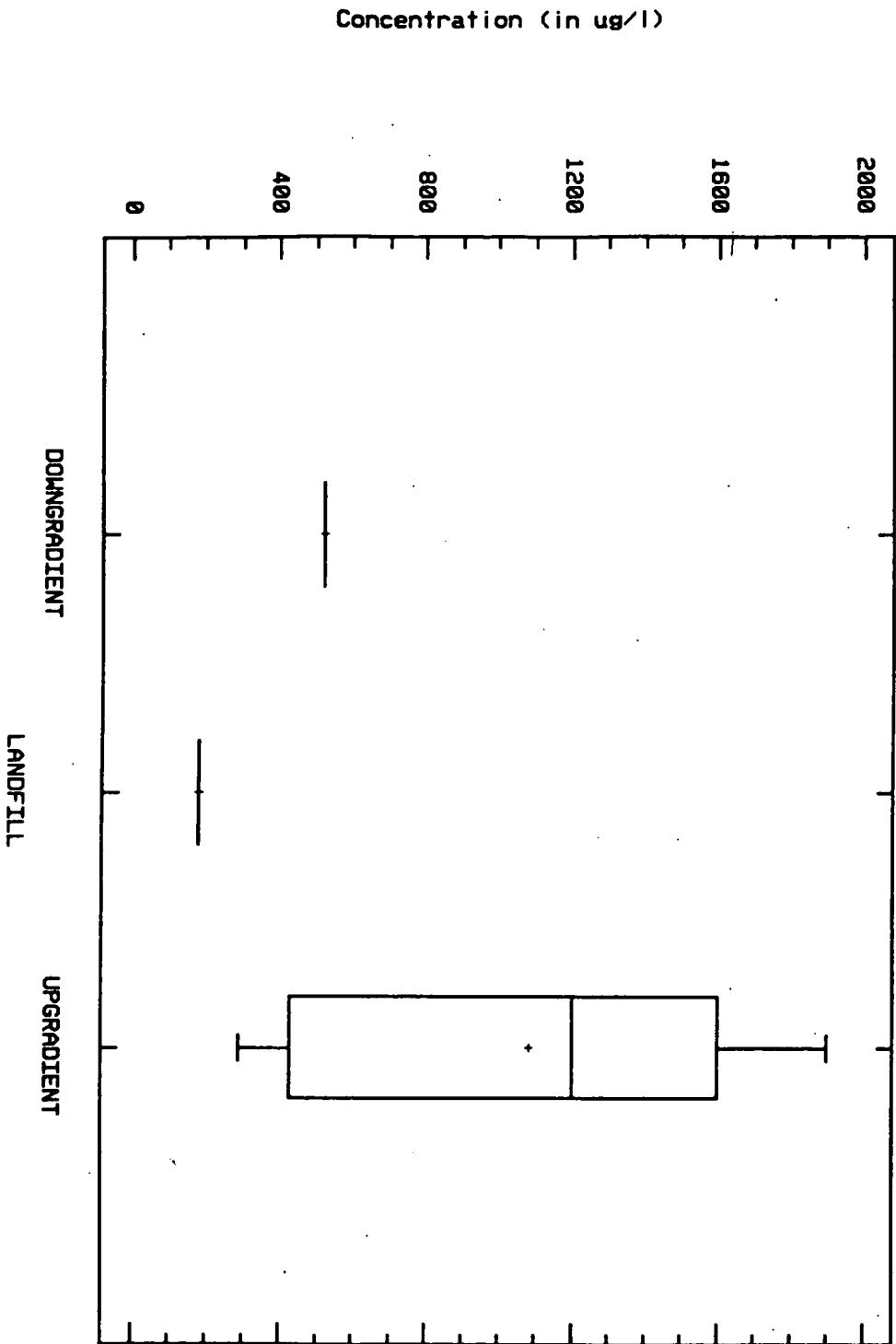
Sodium (Total): Groundwater
Background vs. OUT UHSU



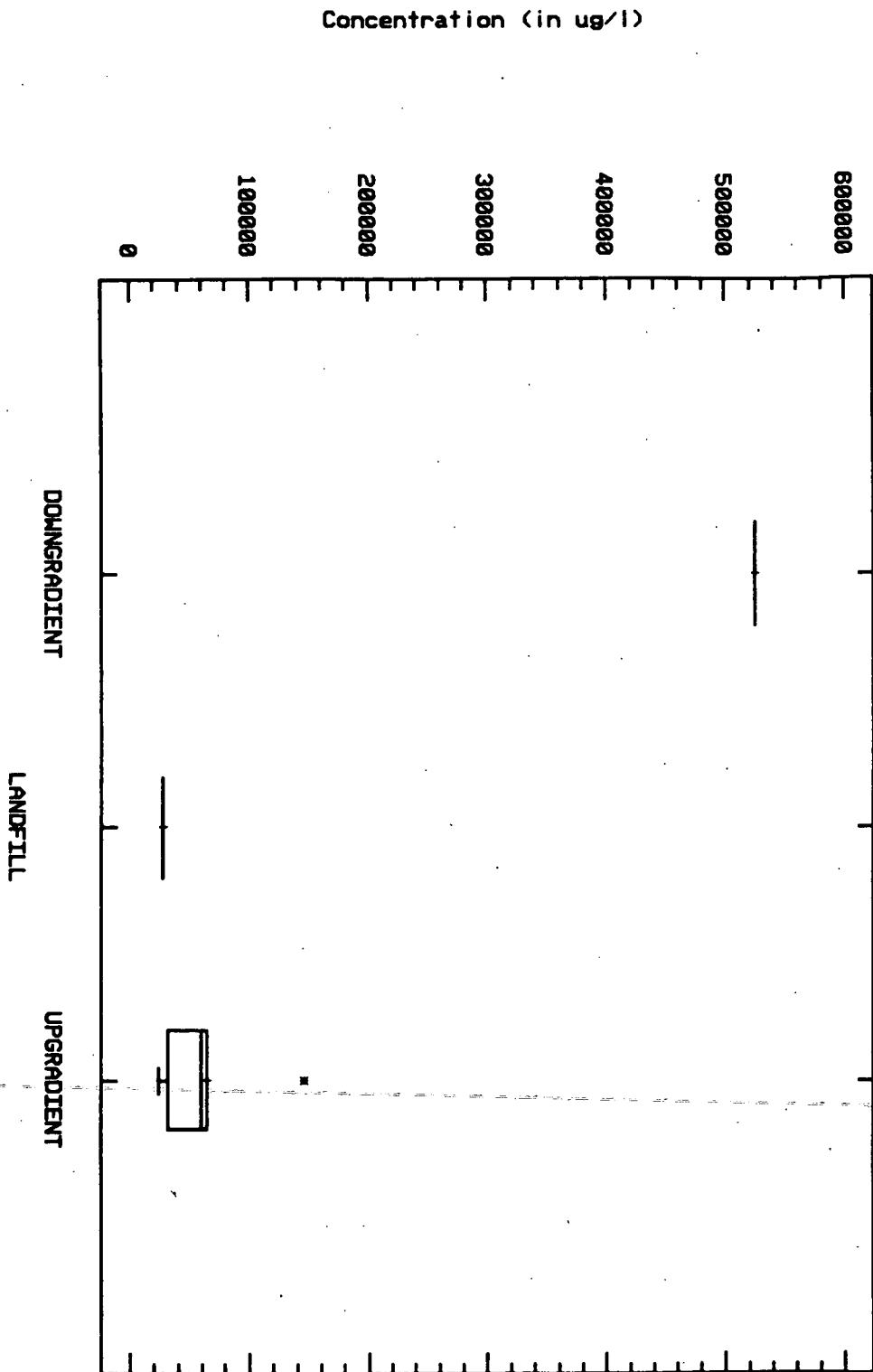
Sodium (Total): Groundwater
Background vs. OUT UHSU



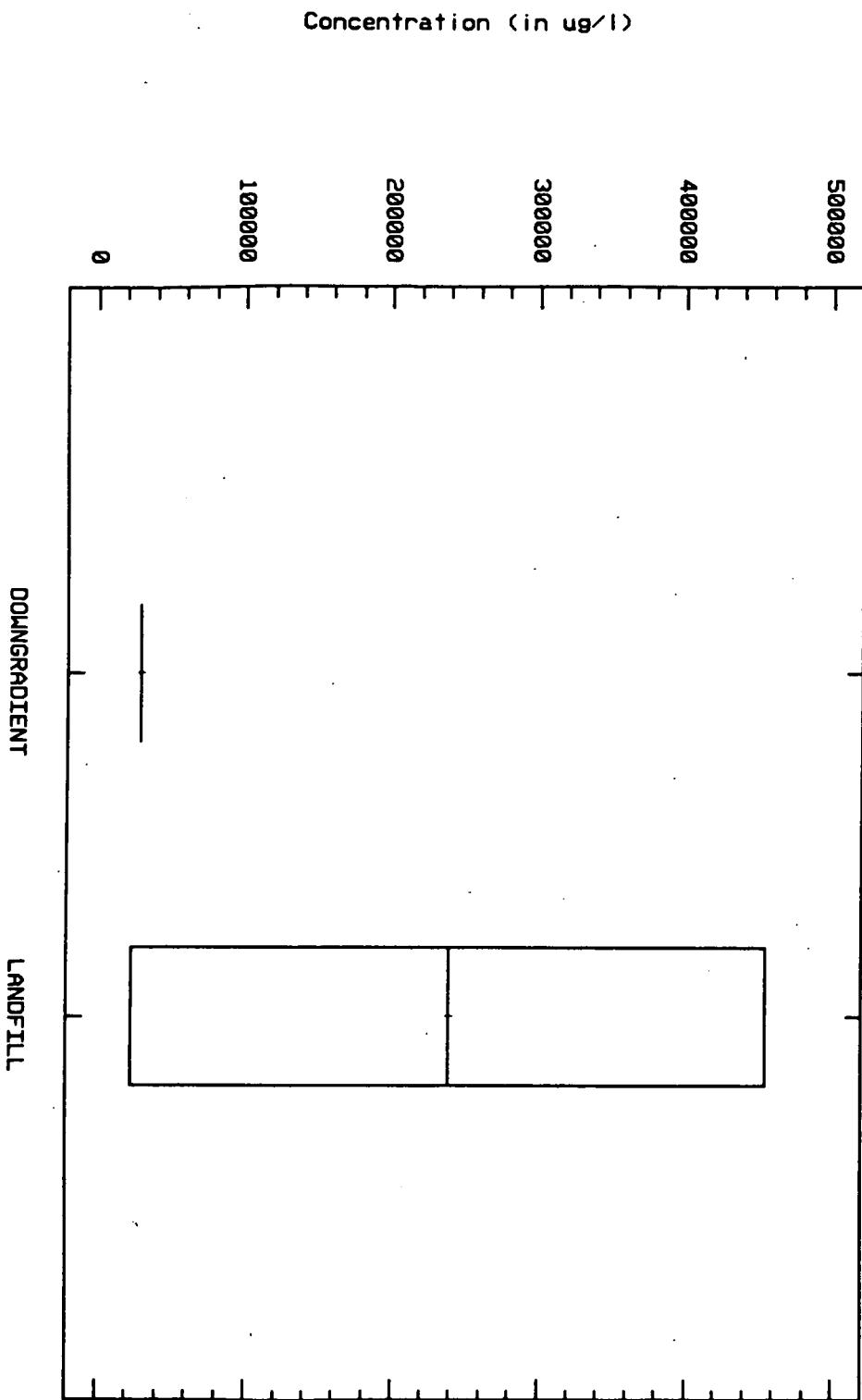
Sodium Fluoride (Total): Groundwater
Background vs. 0W7 UHSU



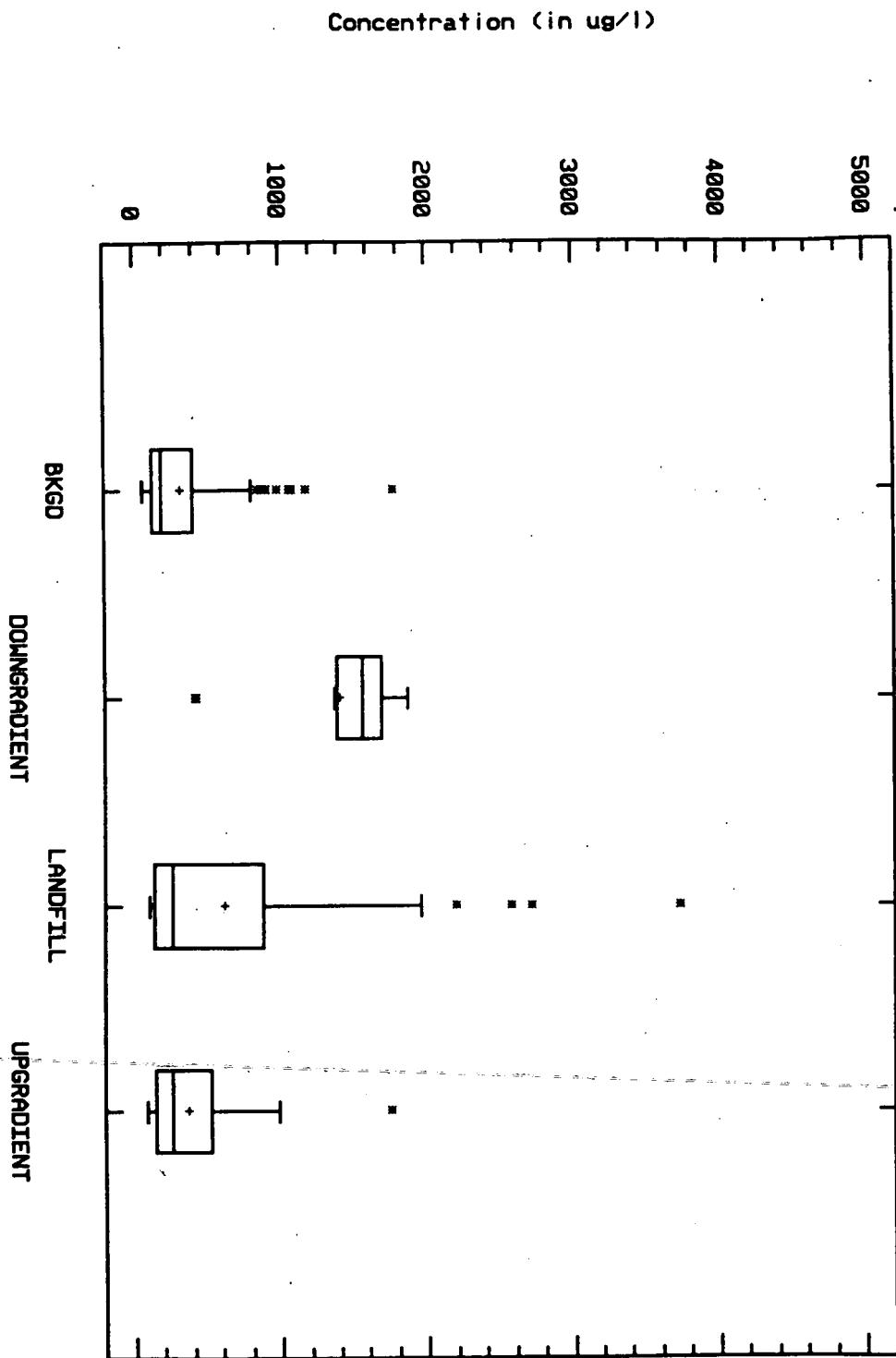
Sodium Sulfate (Total): Groundwater
Background vs. OUT UHSU



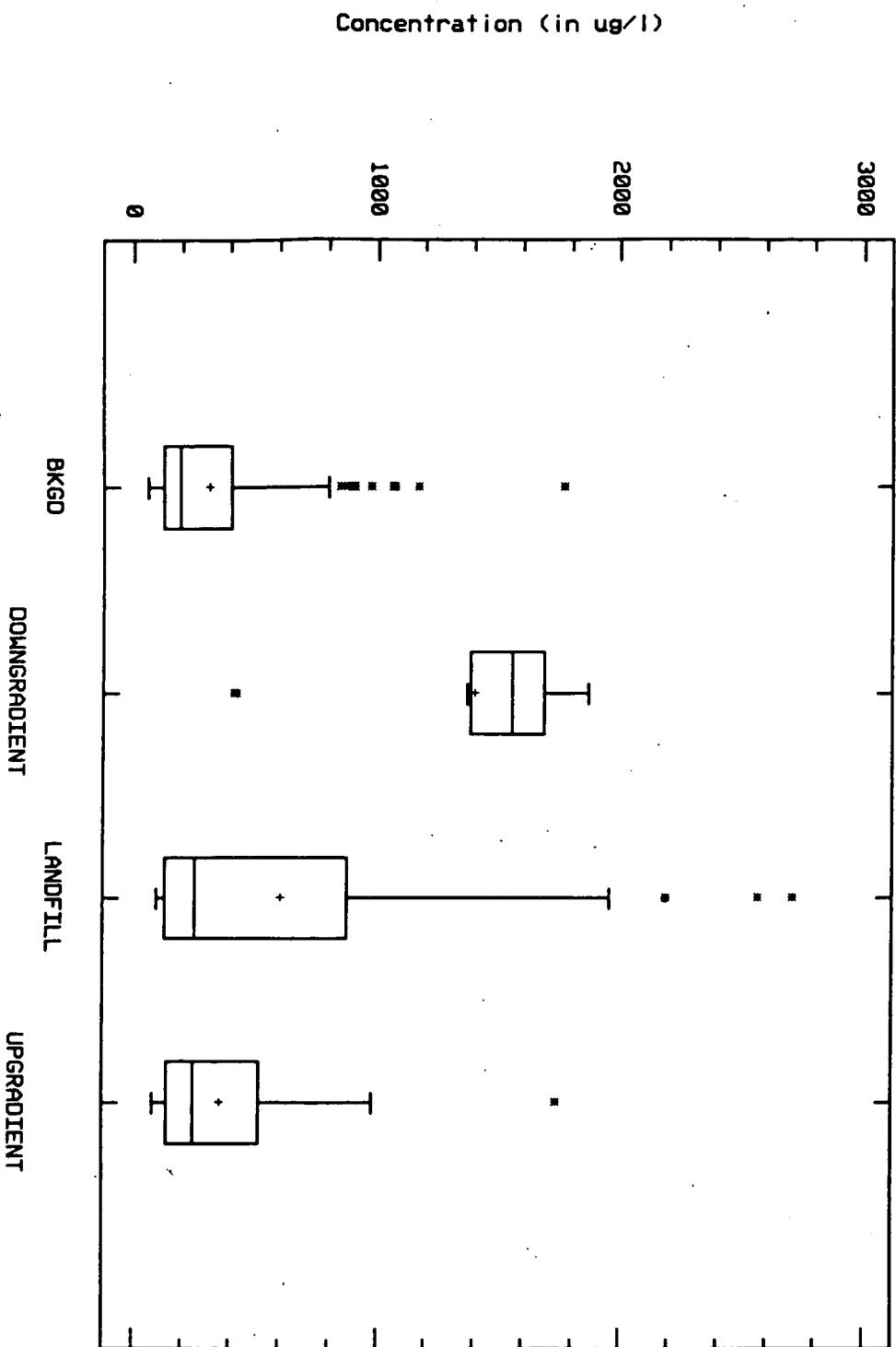
Solids Nonvolatile Suspended:Groundwater
Background vs. OUT UHSU



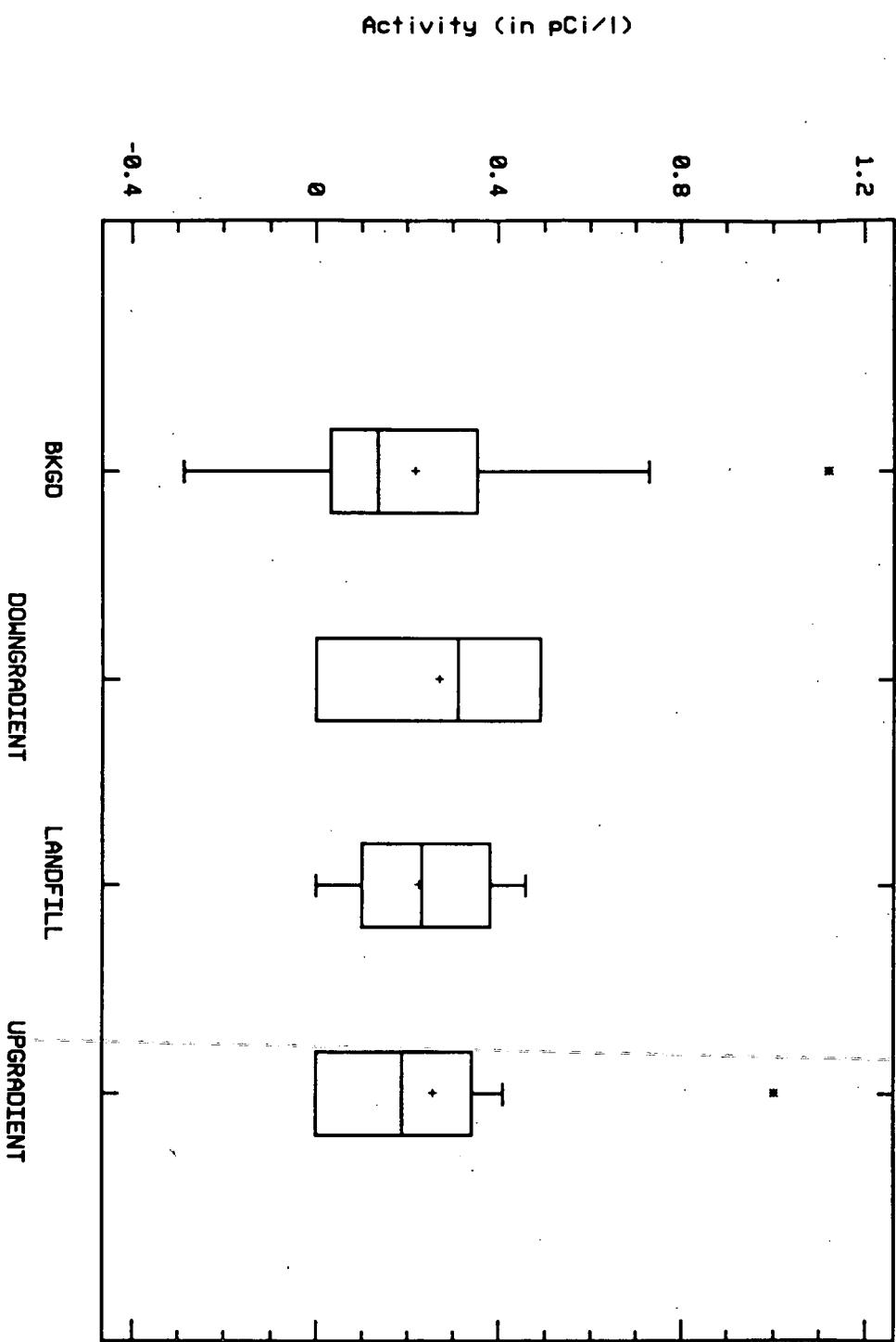
Strontium (Total): Groundwater
Background vs. DU7 UHSU



Strontium (Total): Groundwater
Background vs. OU7 UHSU

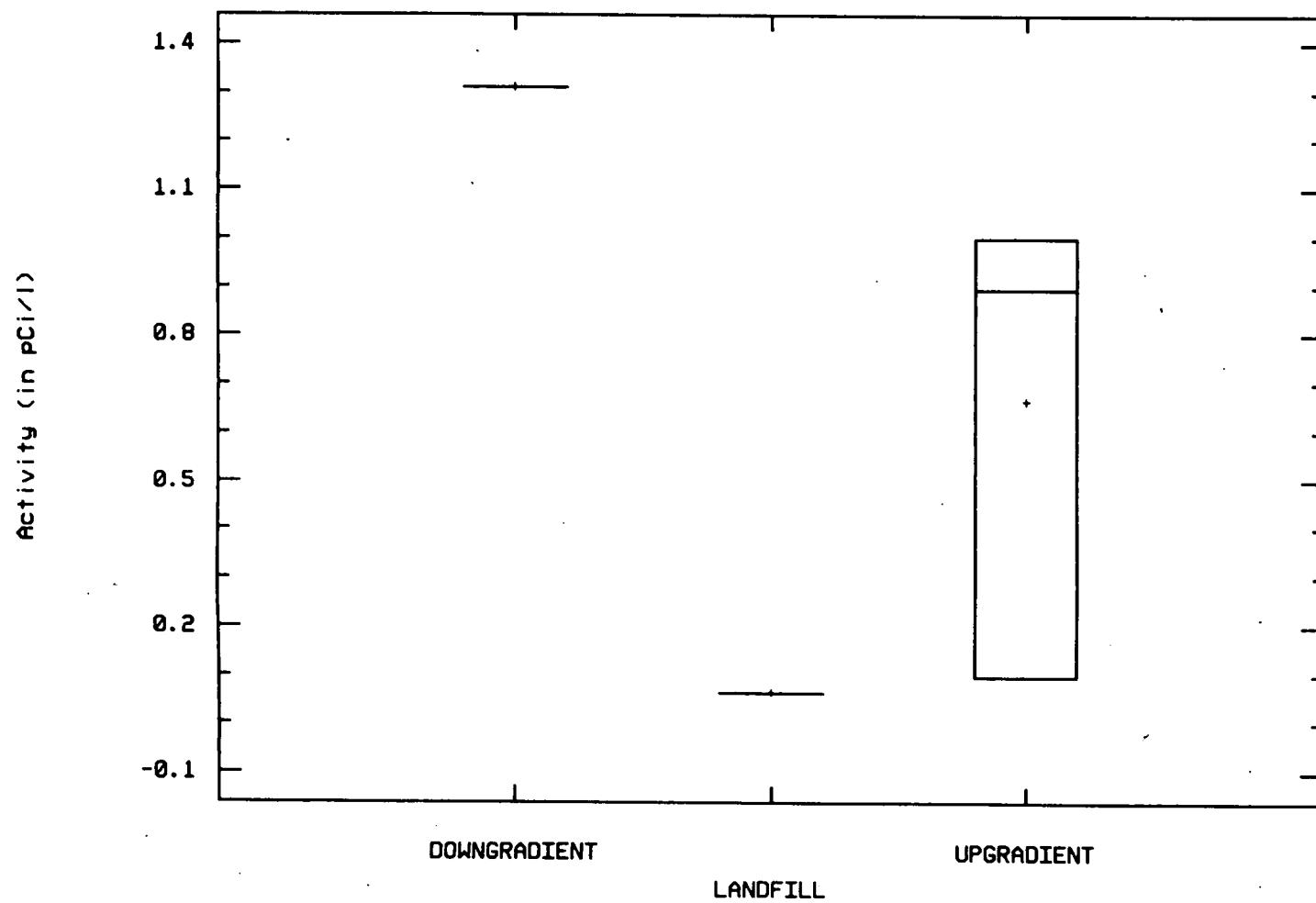


Strontium-89, 90 (Total): Groundwater
Background vs. O17 UHSU



Strontium-90 (Total): Groundwater

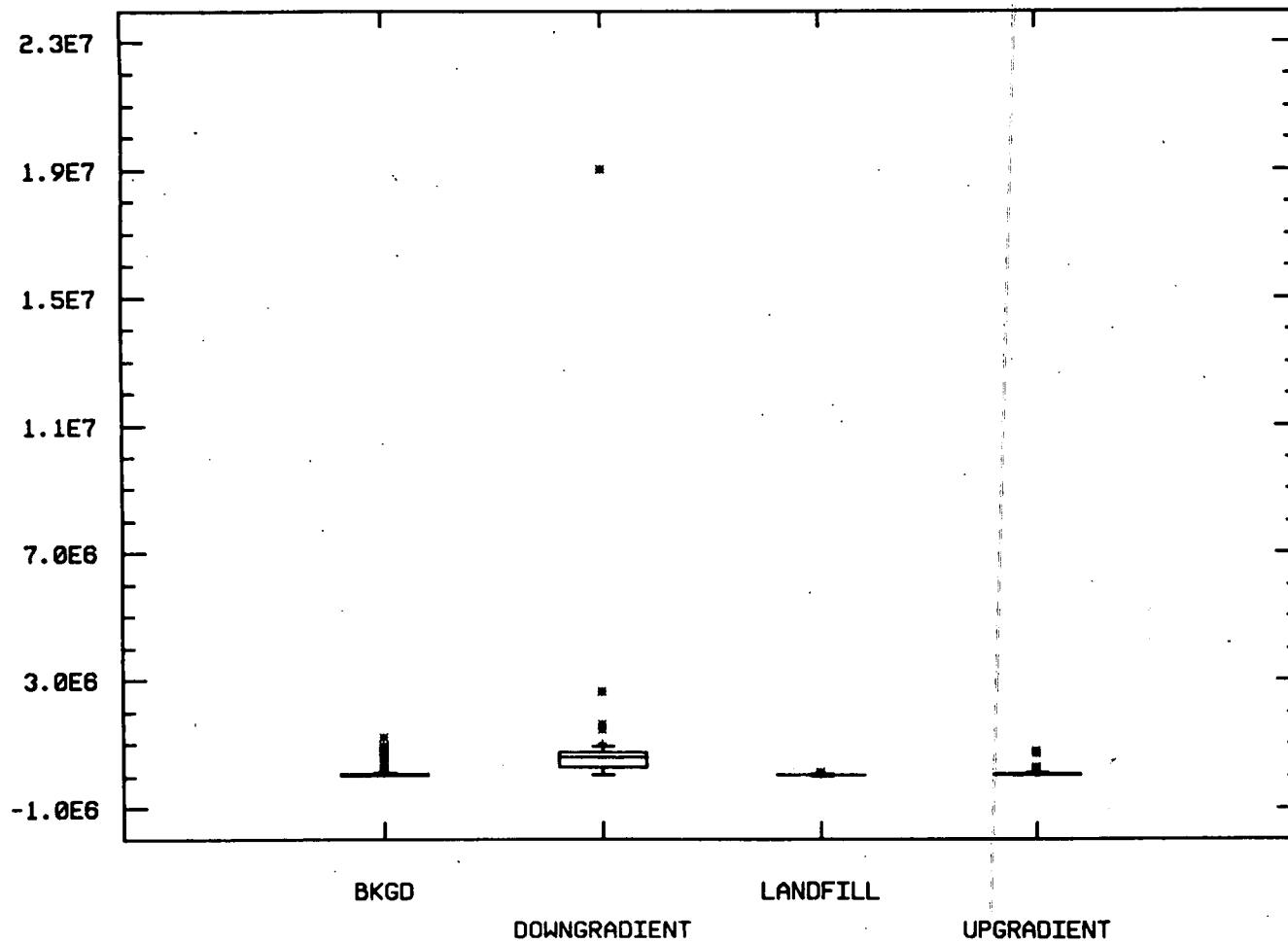
Background vs. OU7 UHSU



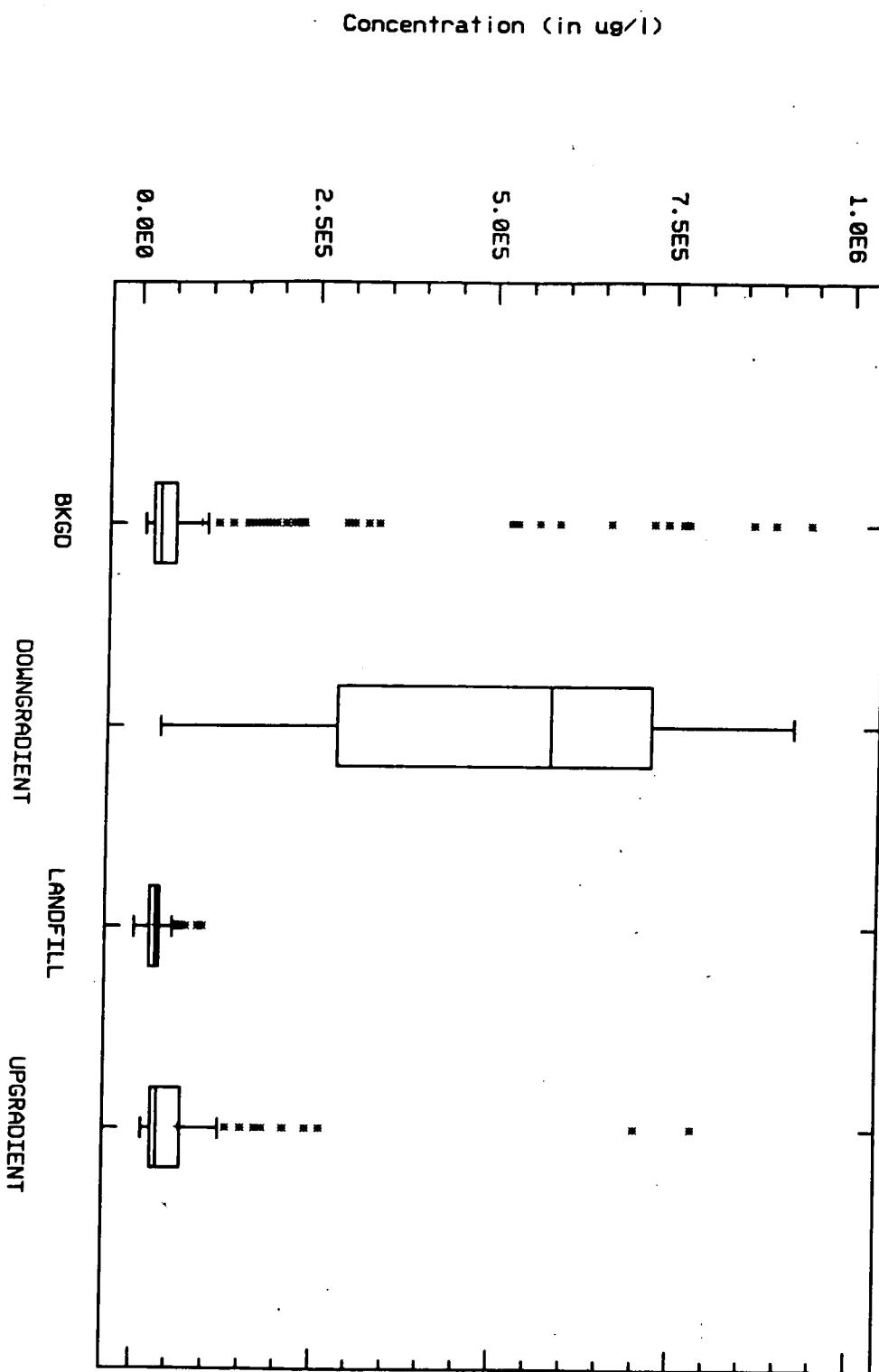
Sulfate (Total): Groundwater

Background vs. OU7 UHSU

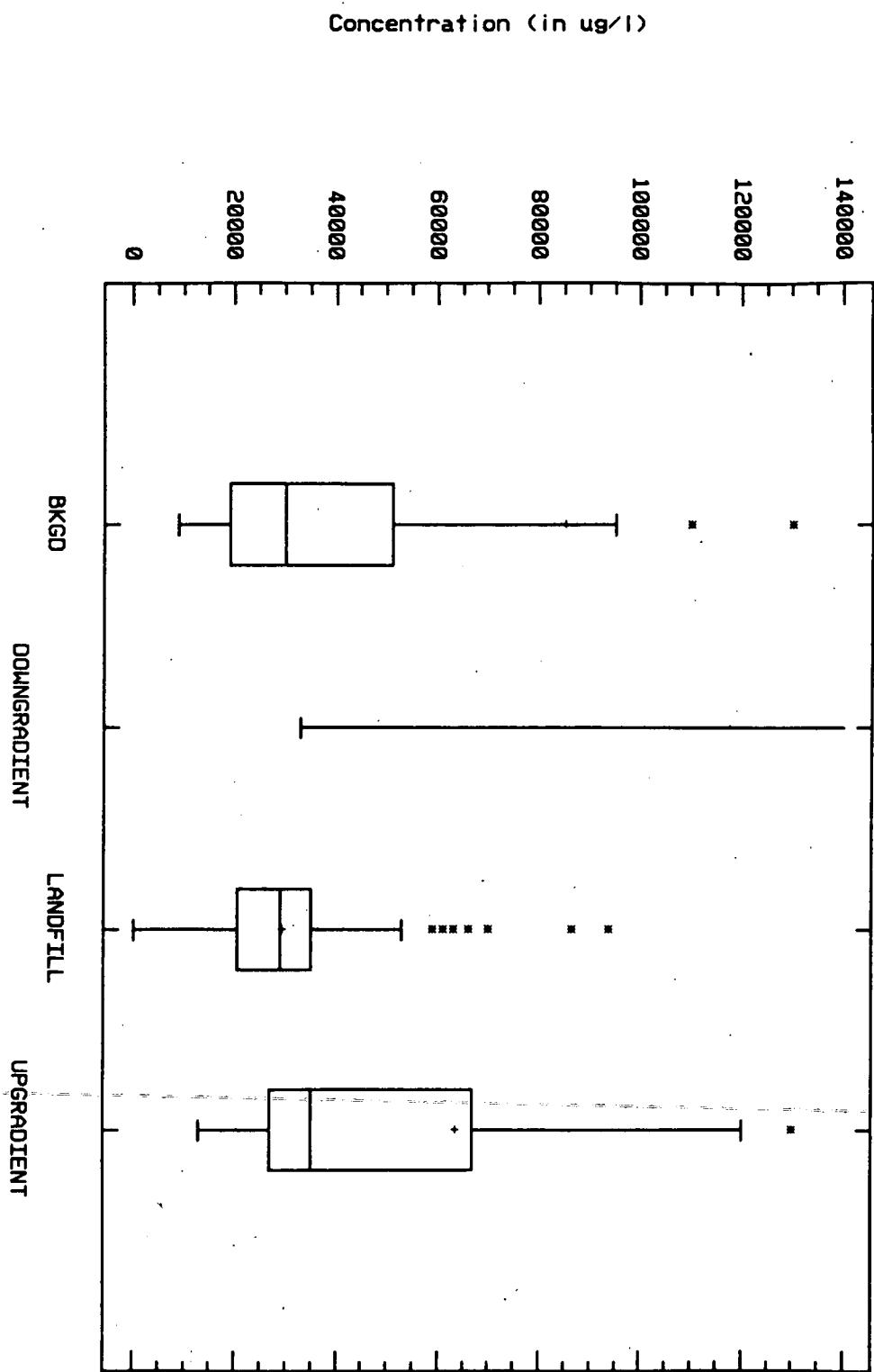
Concentration (in ug/l)



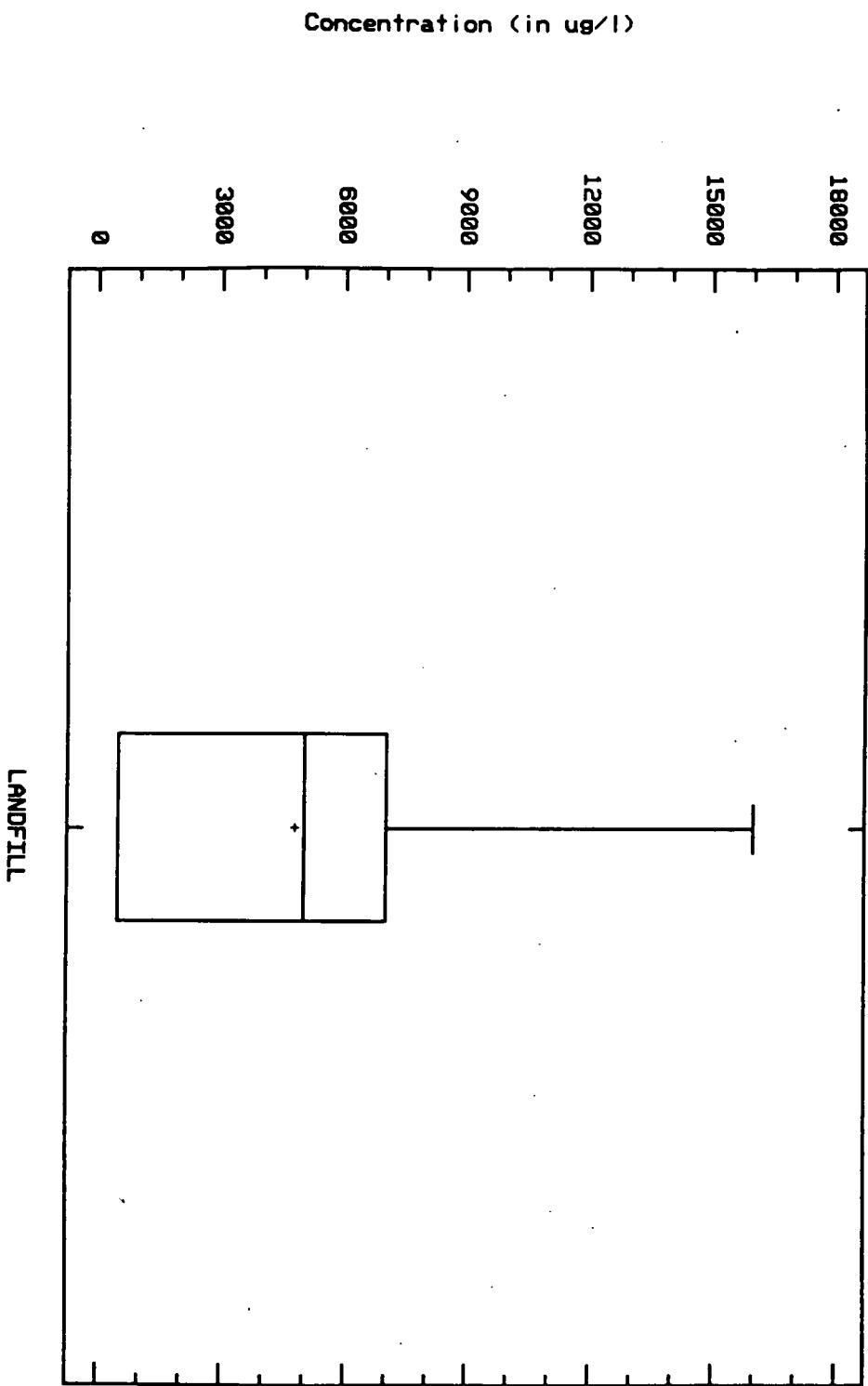
Sulfate (Total): Groundwater
Background vs. OUT UHSU



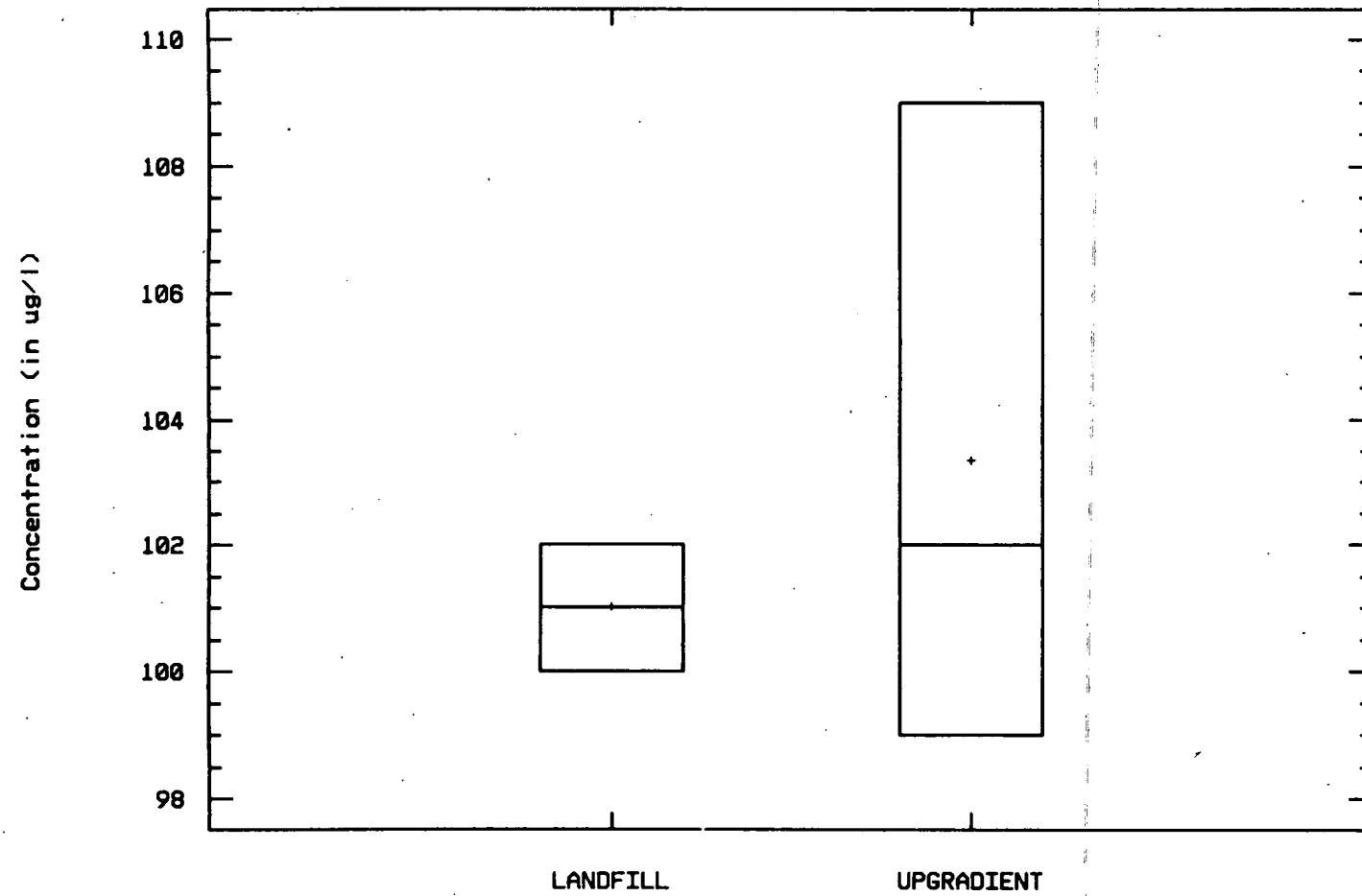
Sulfate (Total): Groundwater
Background vs. OUT UHSU



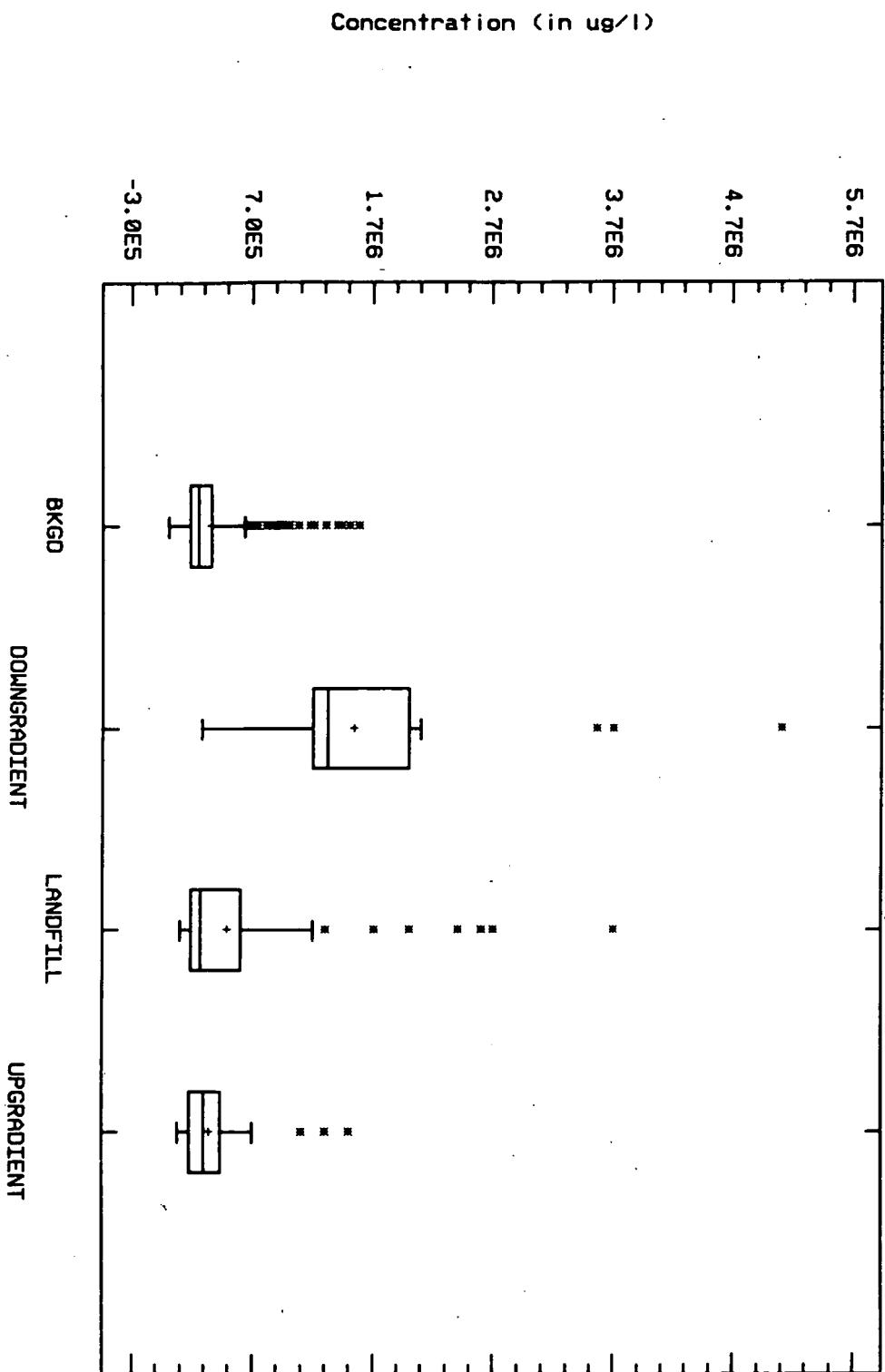
Sulfide (Total): Groundwater
Background vs. OUT UHSU



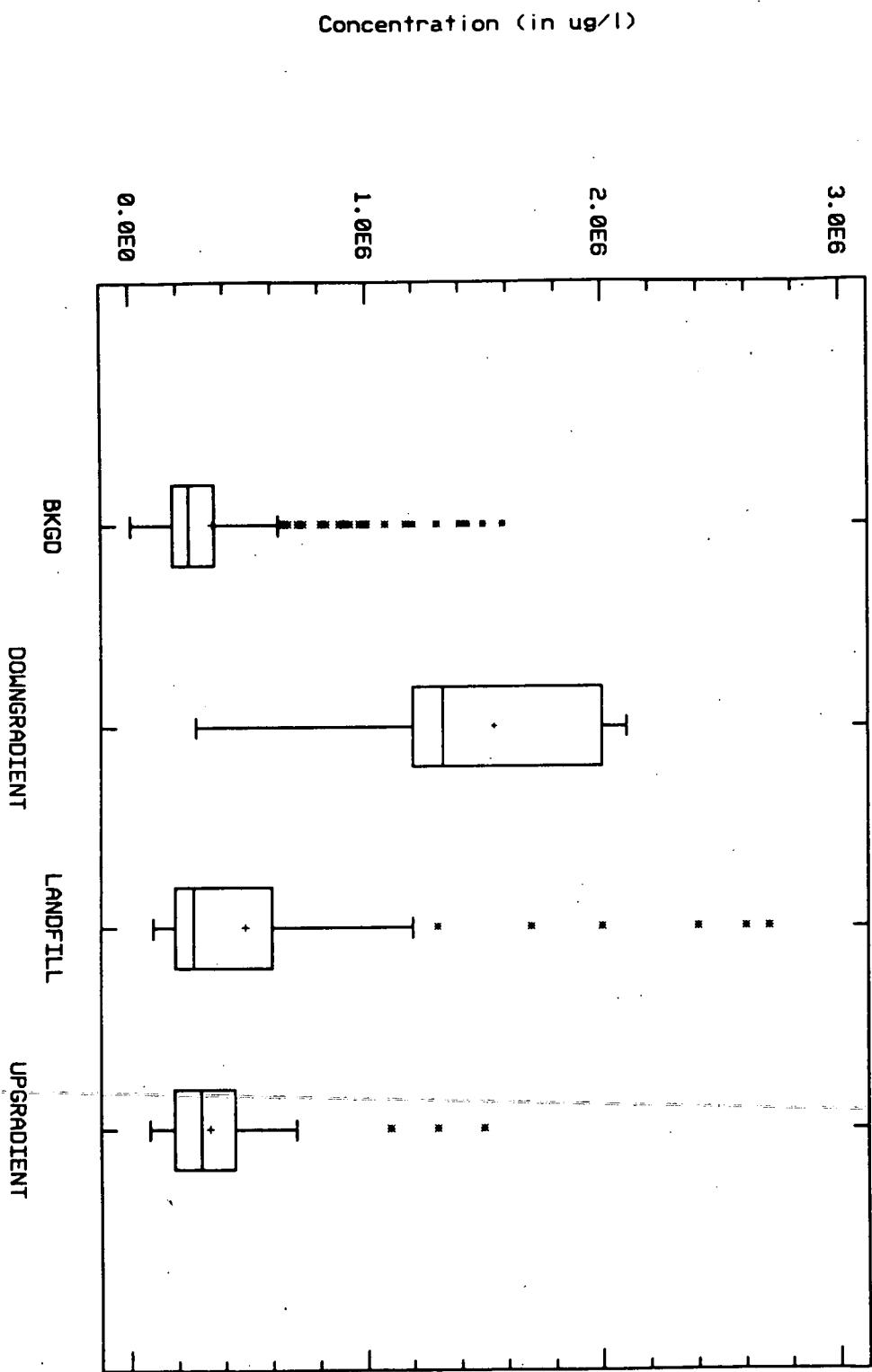
Toluene-D8 (Total): Groundwater
Background vs. OU7 UHSU



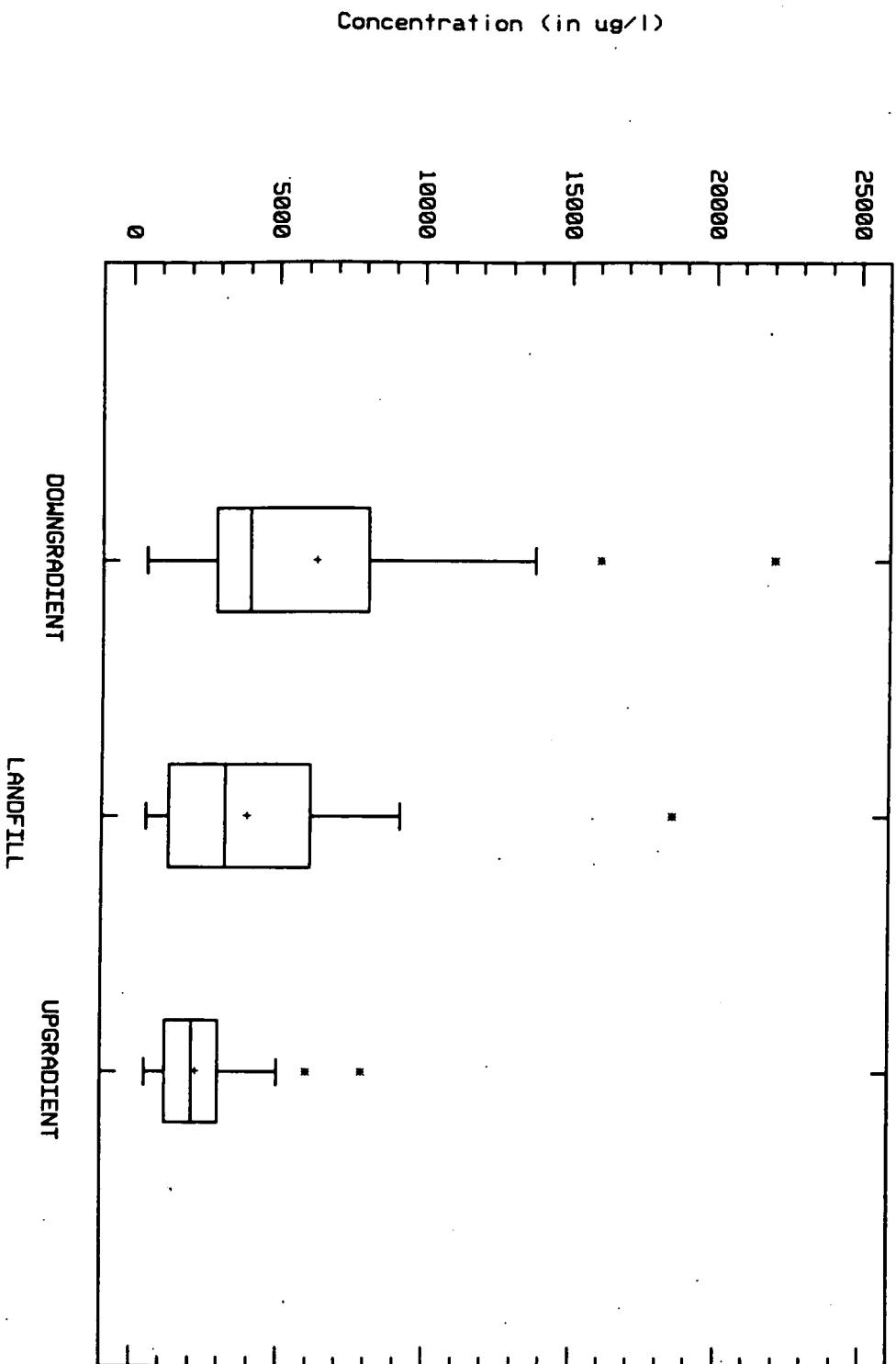
Total Dissolved Solids: Groundwater
Background vs. 017 UHSU



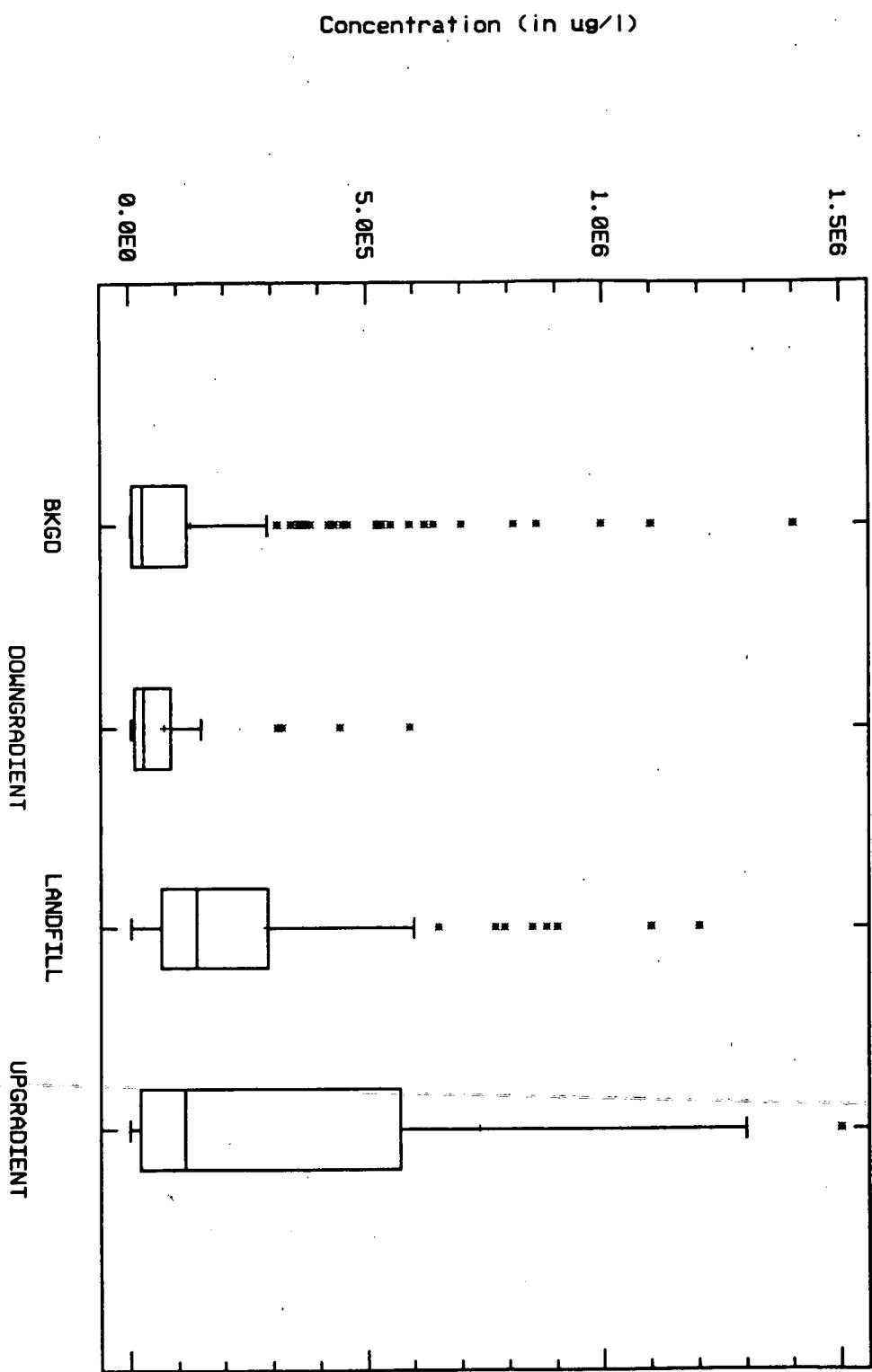
Total Dissolved Solids: Groundwater
Background vs. 017 UHSU



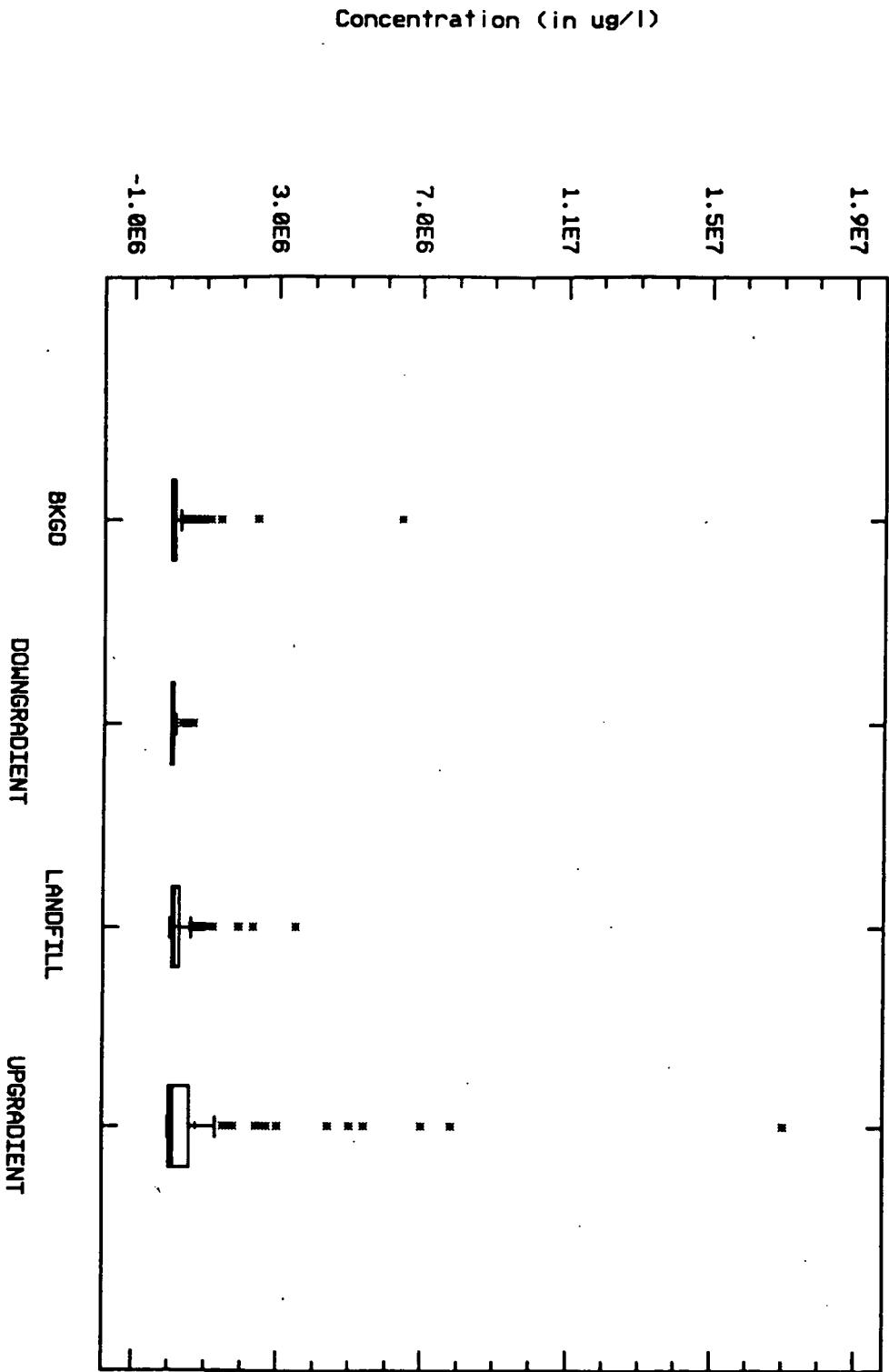
Total Organic Carbon: Groundwater
Background vs. OUT UHSU



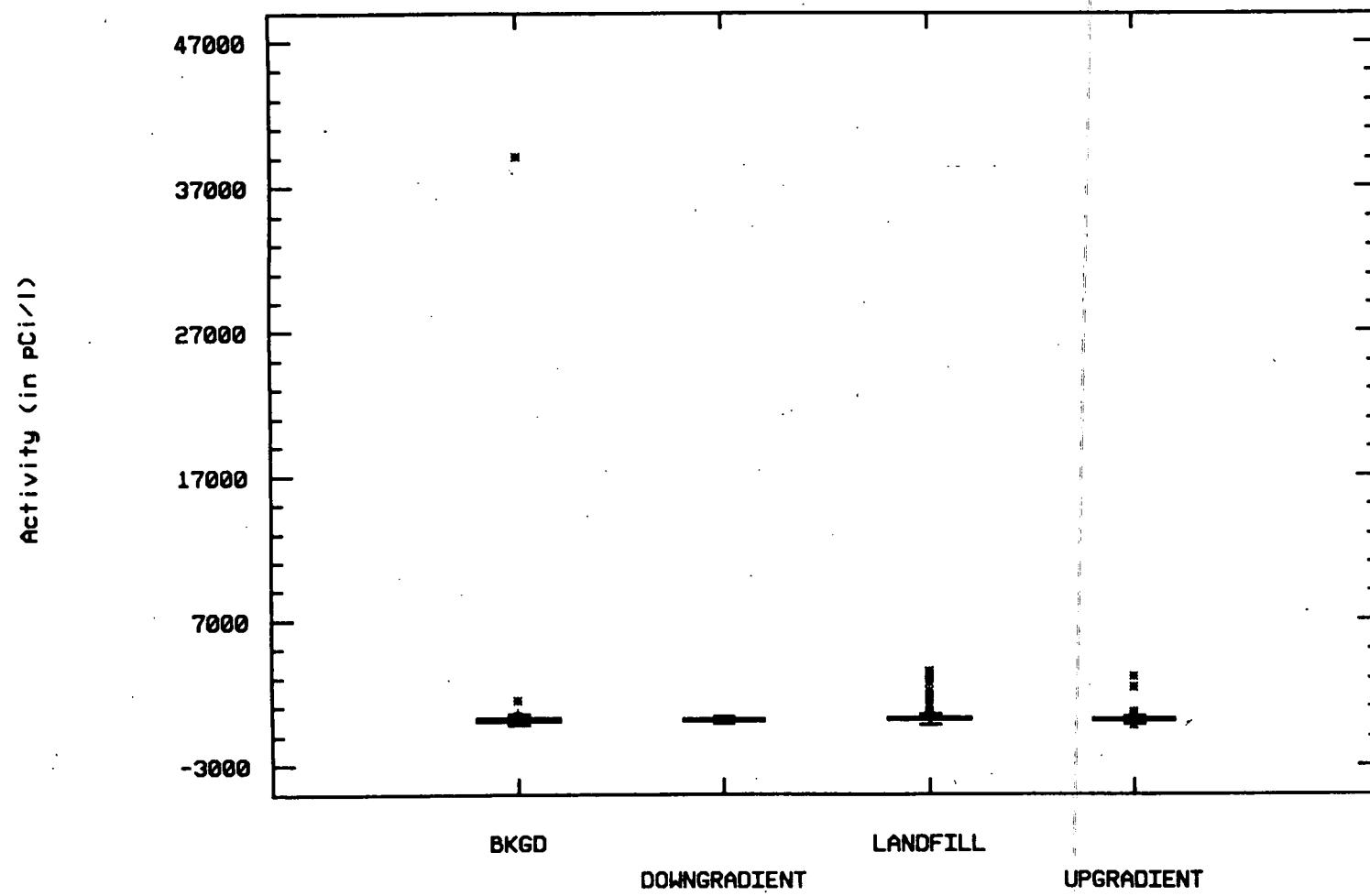
Total Suspended Solids (TSS): Groundwater
Background vs. OUT UHSU



Total Suspended Solids (TSS): Groundwater
Background vs. 017 UHSU

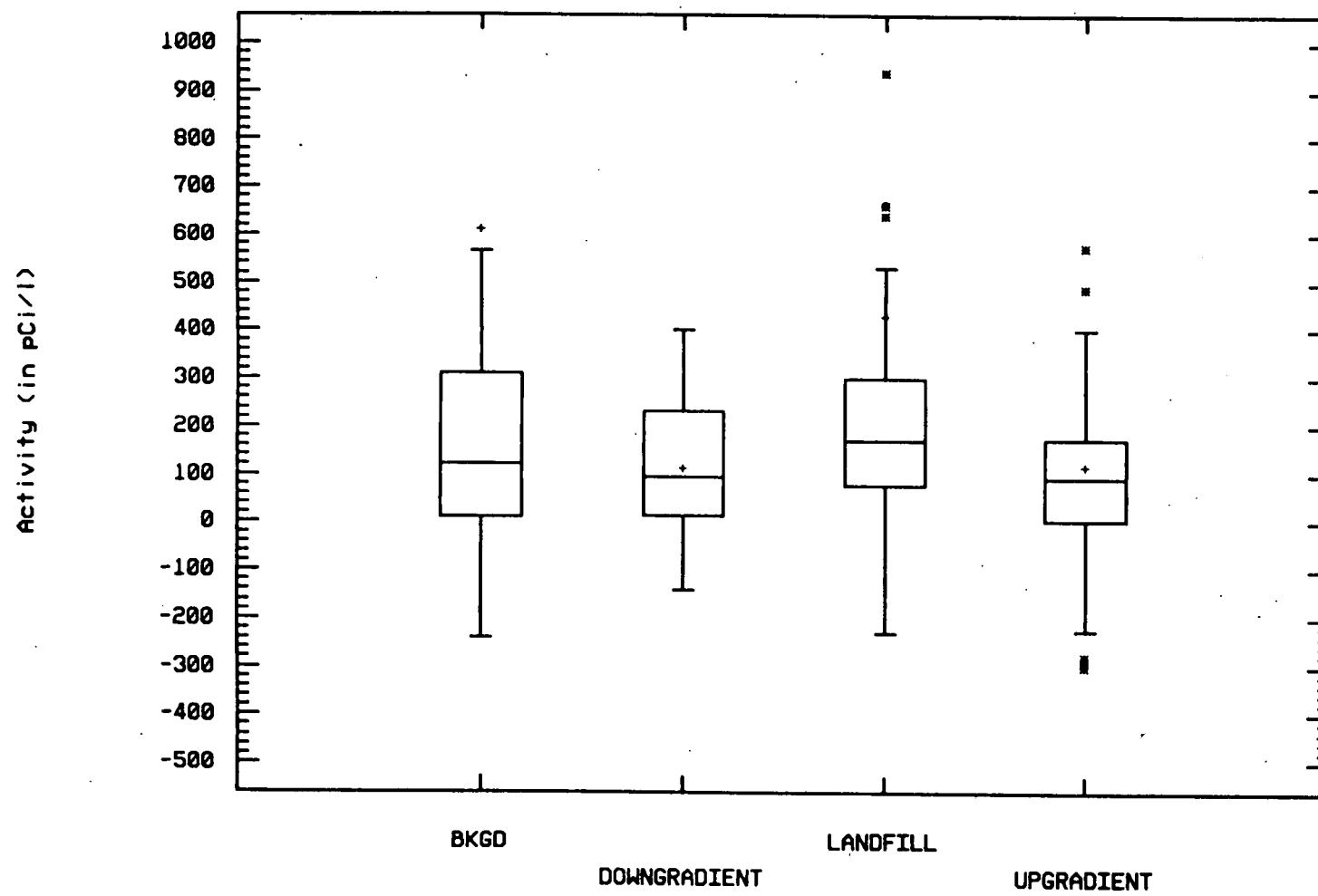


Tritium (Total): Groundwater
Background vs. OU7 UHSU

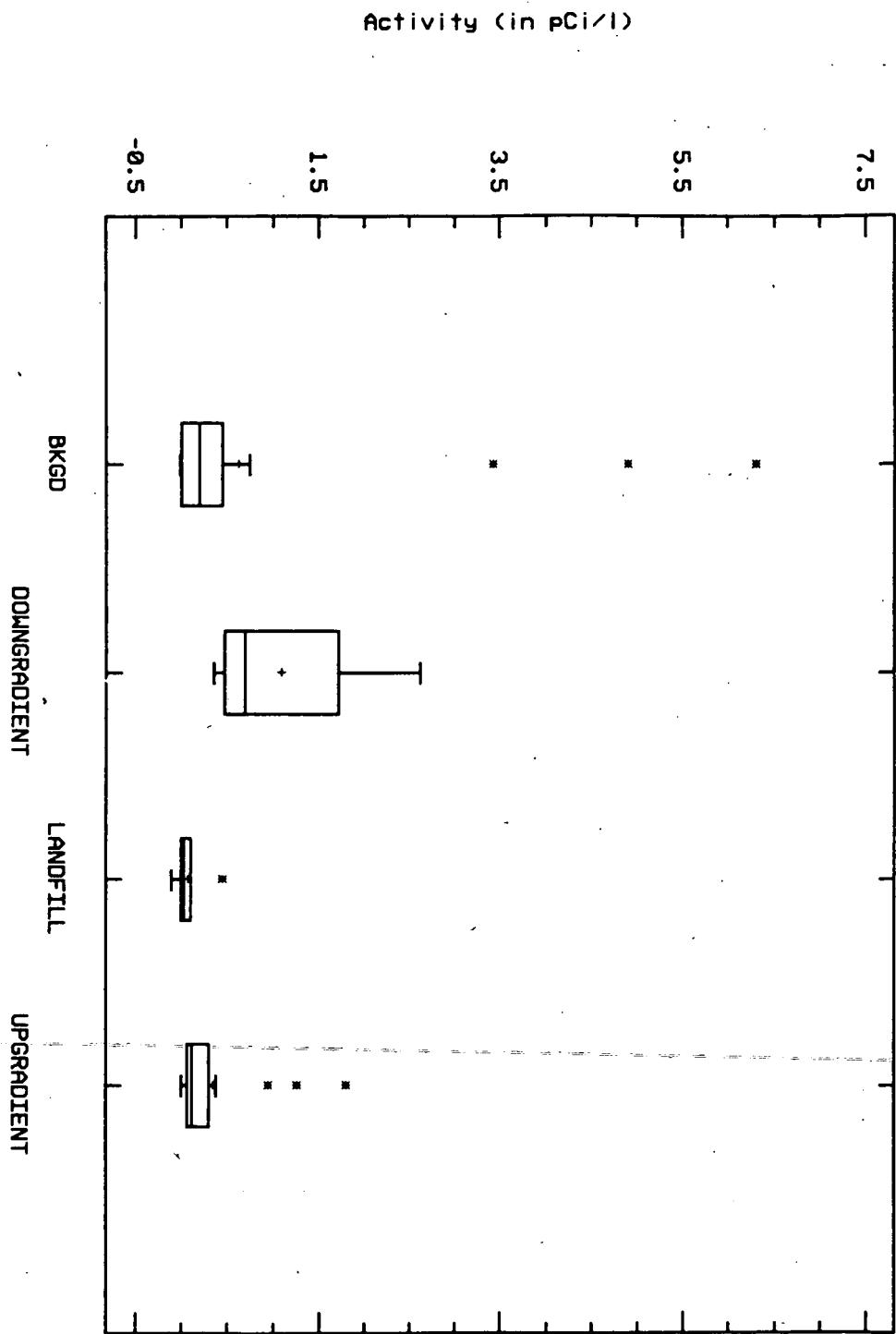


Tritium (Total): Groundwater

Background vs. OU7 UHSU

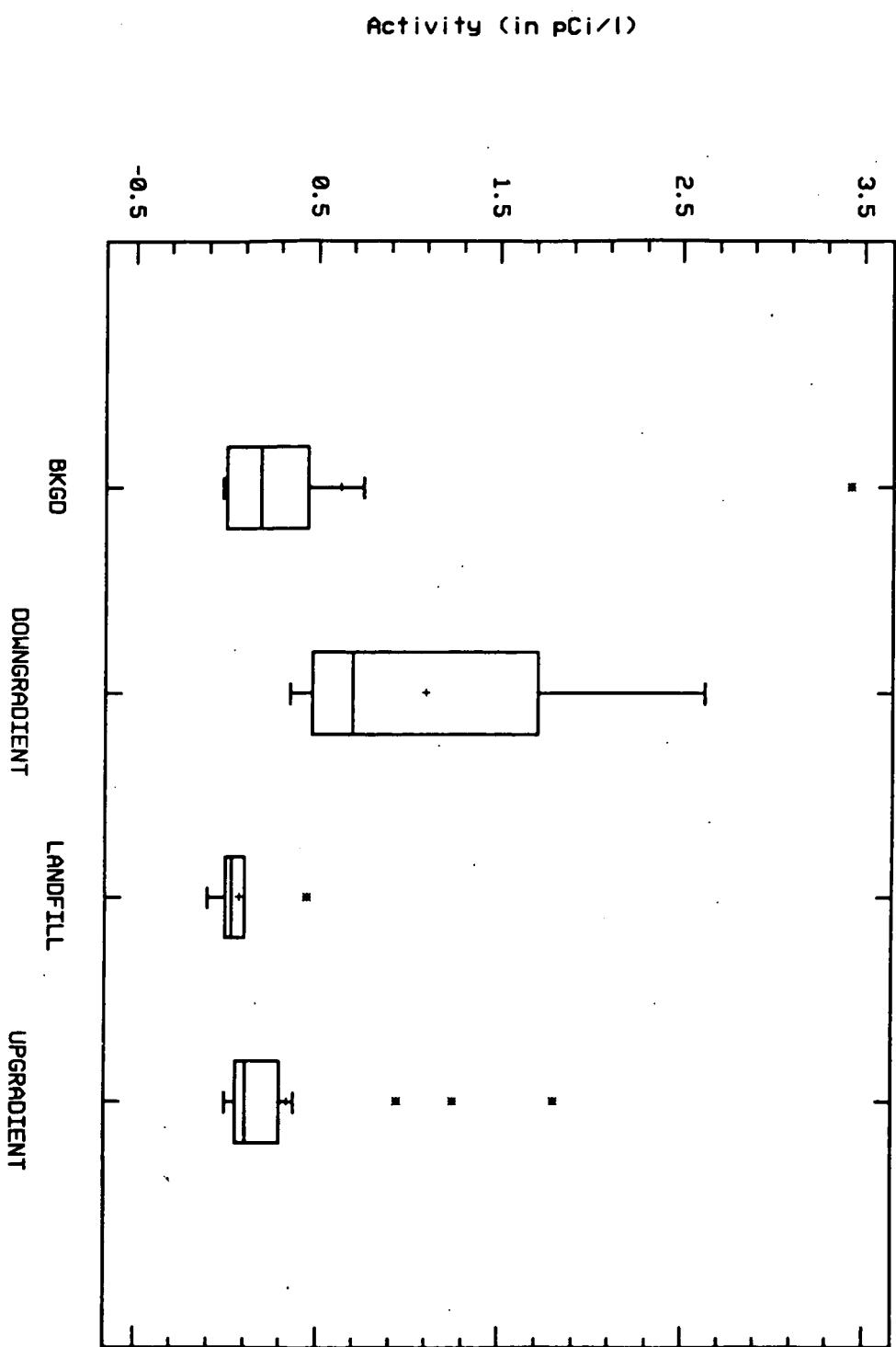


Uranium-235 (Total): Groundwater
Background vs. OUT UHSU



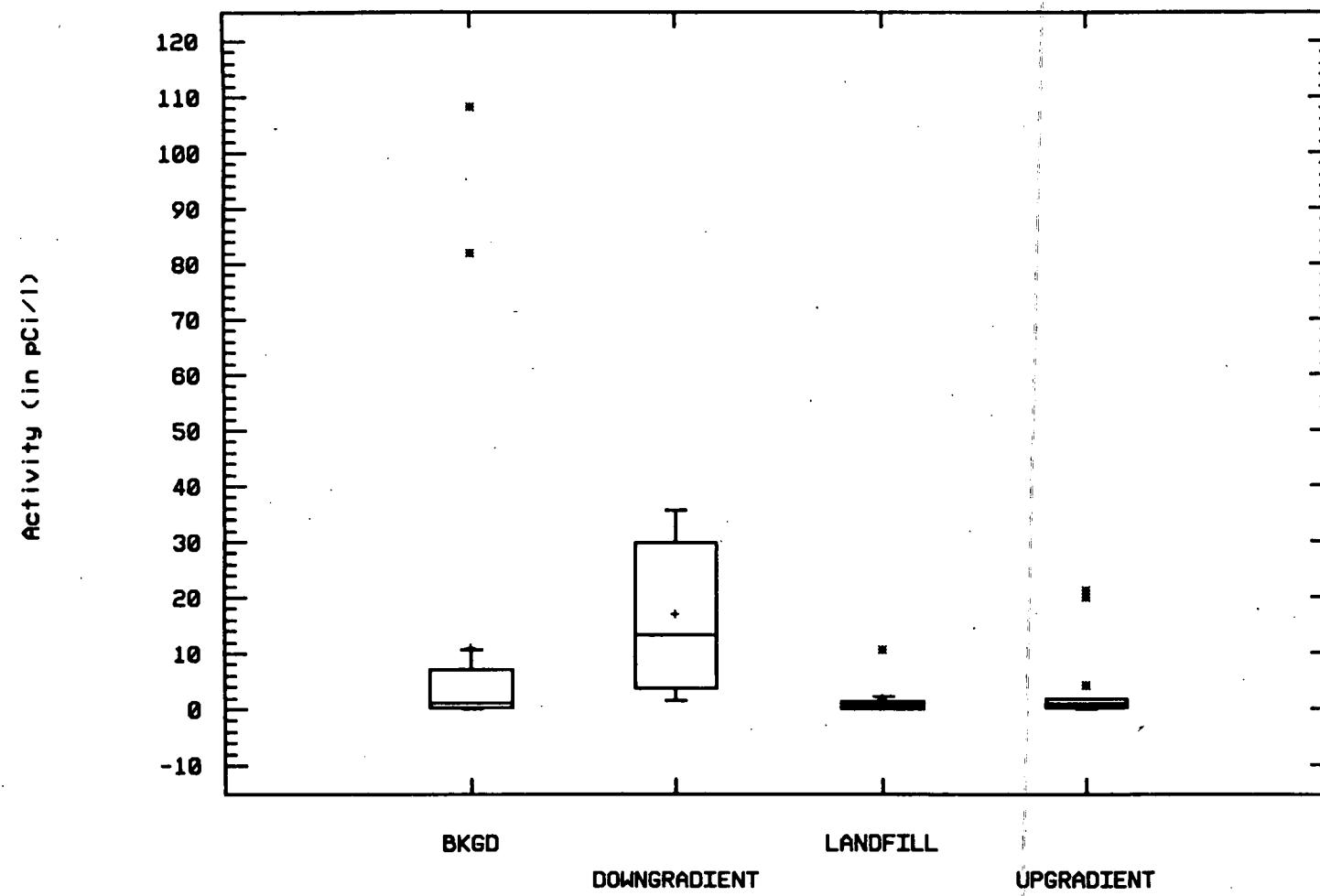
Uranium-235 (Total): Groundwater

Background vs. 017 UHSU

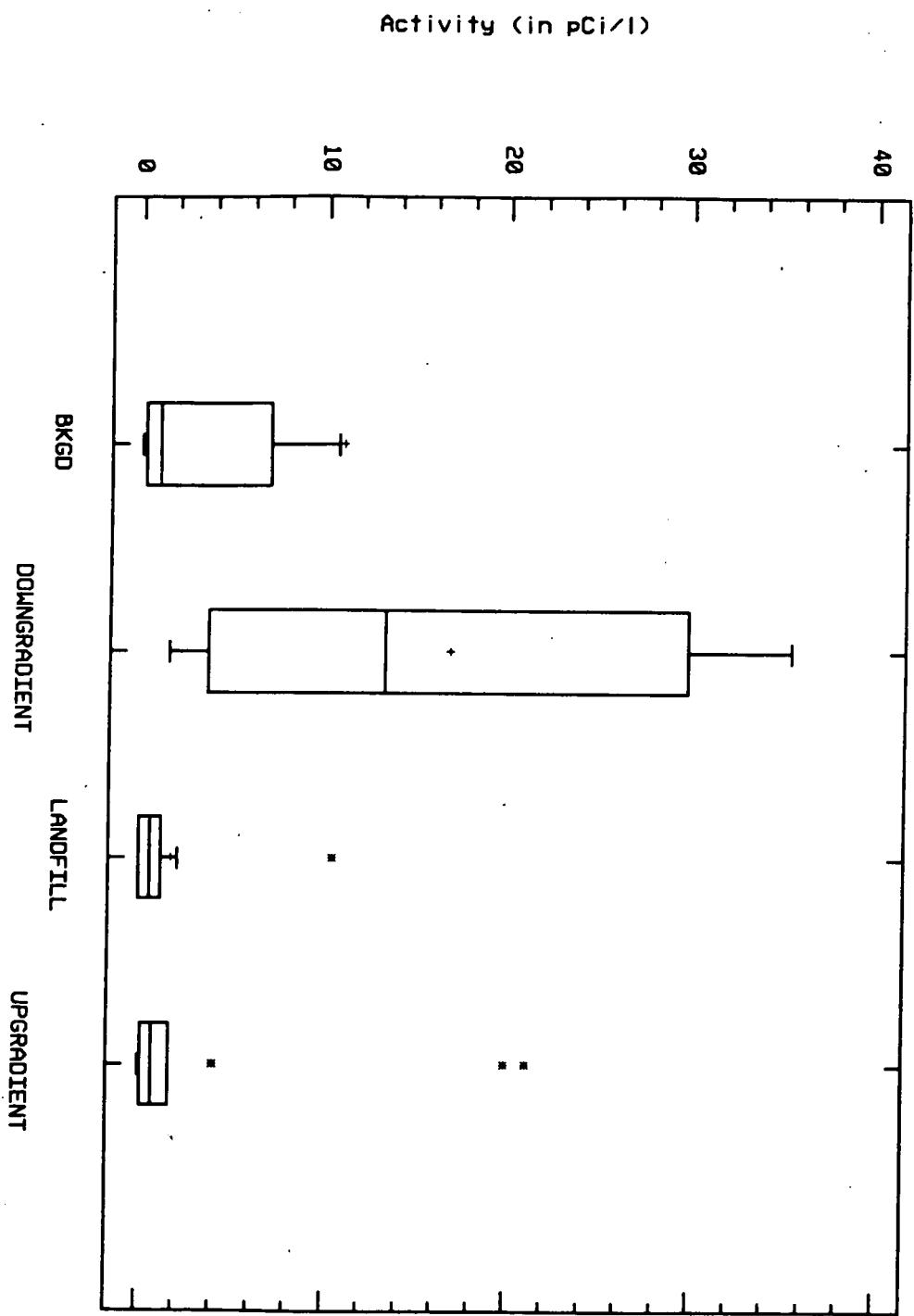


Uranium-238 (Total): Groundwater

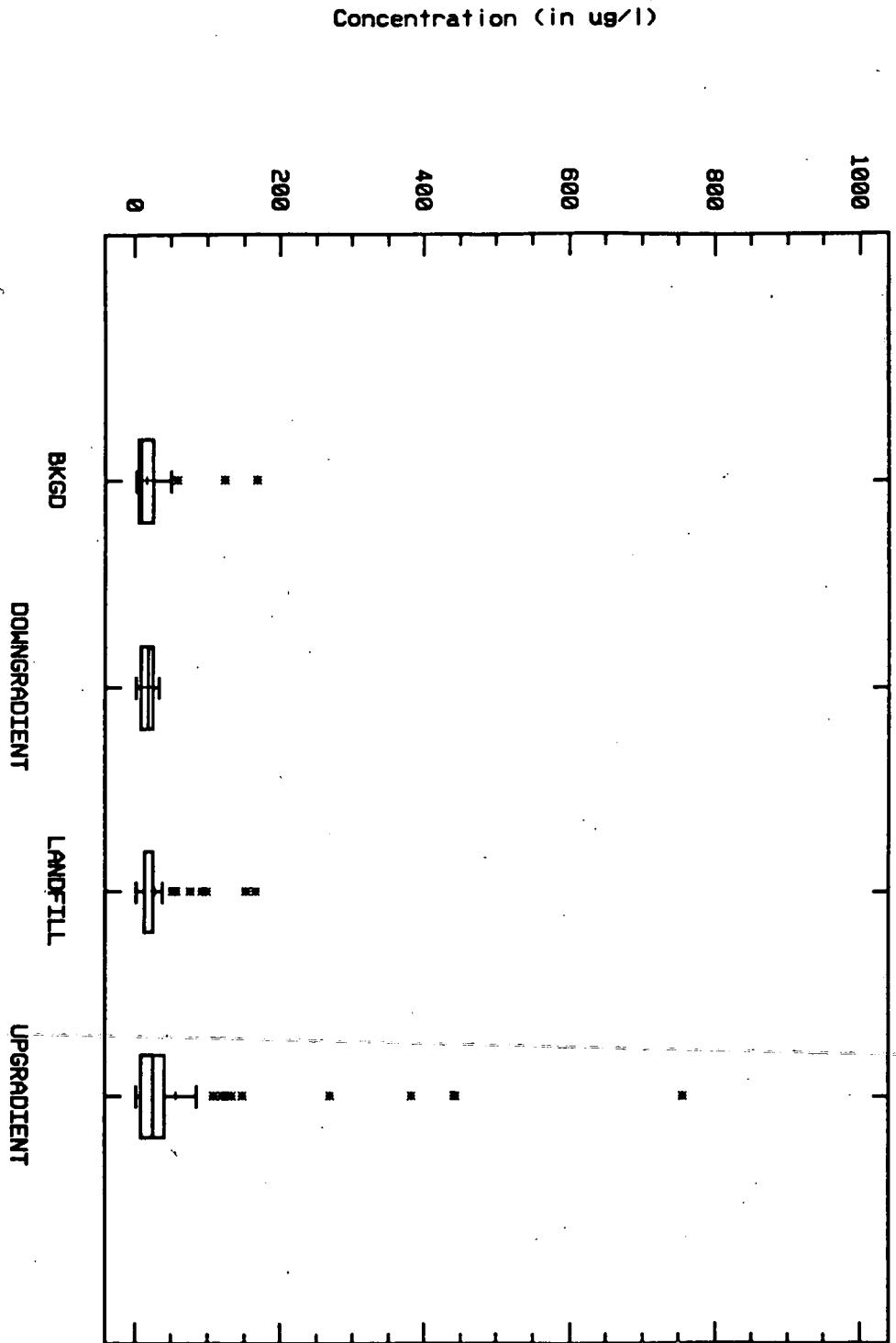
Background vs. OU7 UHSU



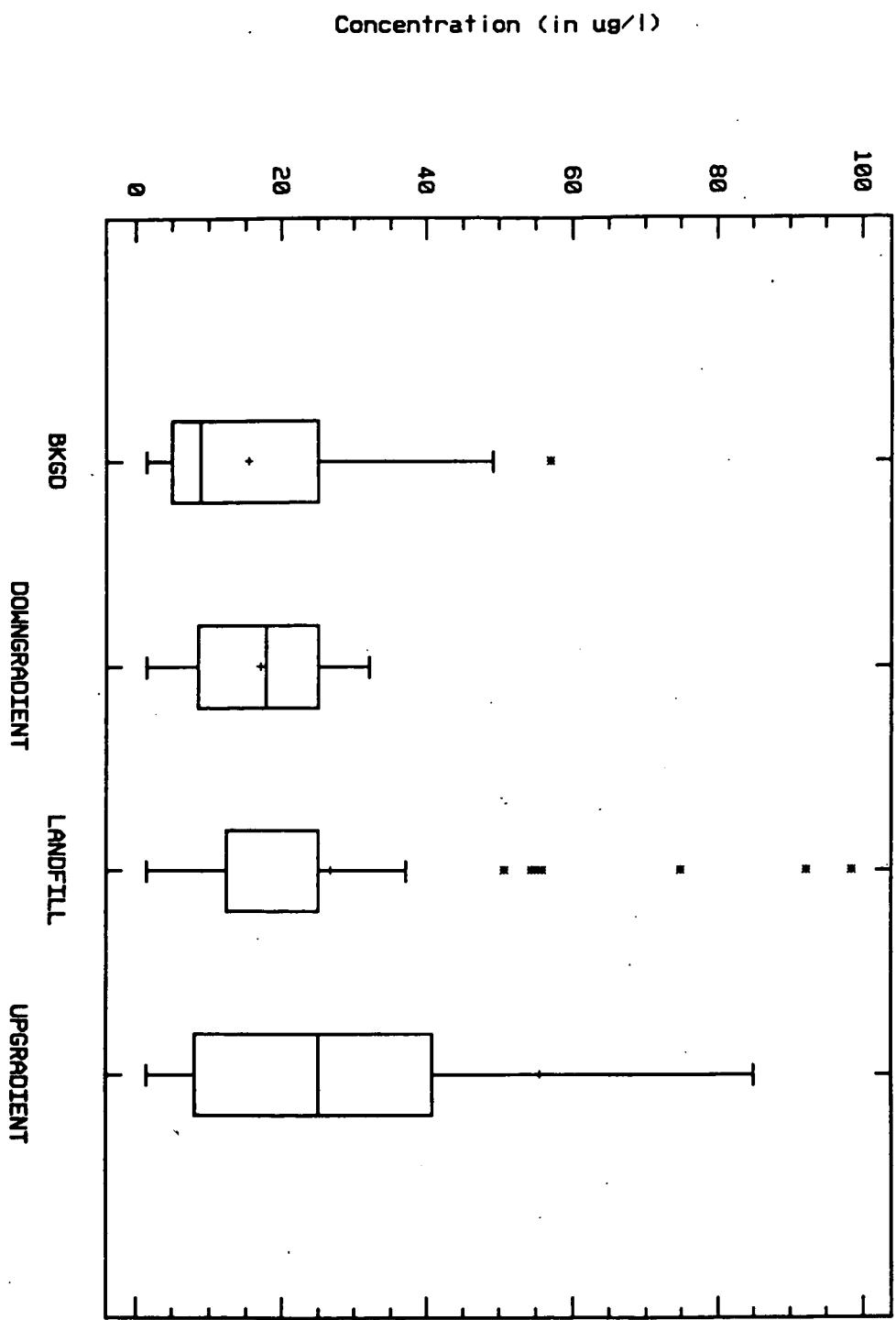
Uranium-238 (Total): Groundwater
Background vs. OU7 UHSU



**Vanadium (Total): Groundwater
Background vs. OUT UHSU**

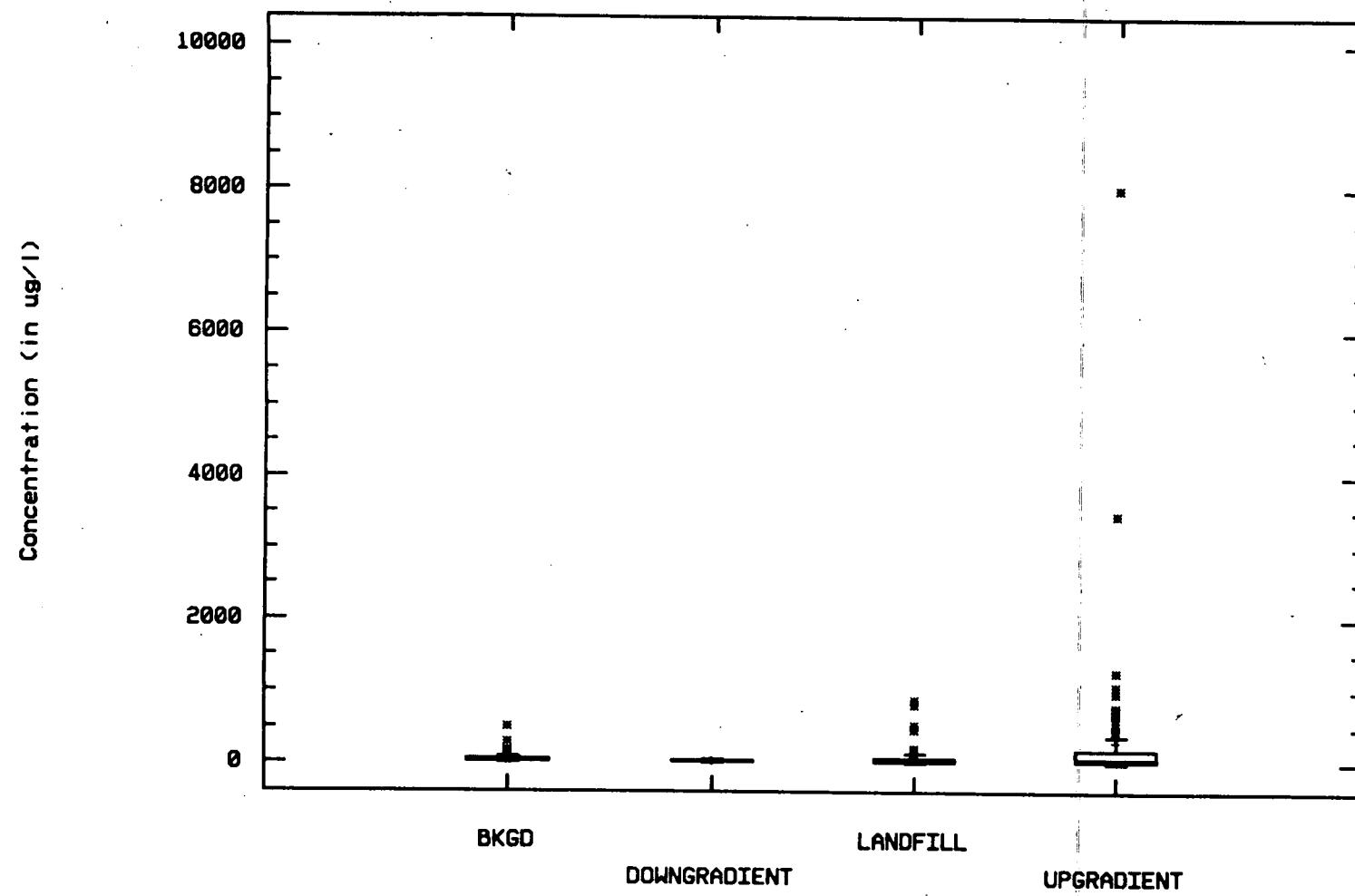


Vanadium (Total): Groundwater
Background vs. 017 UHSU

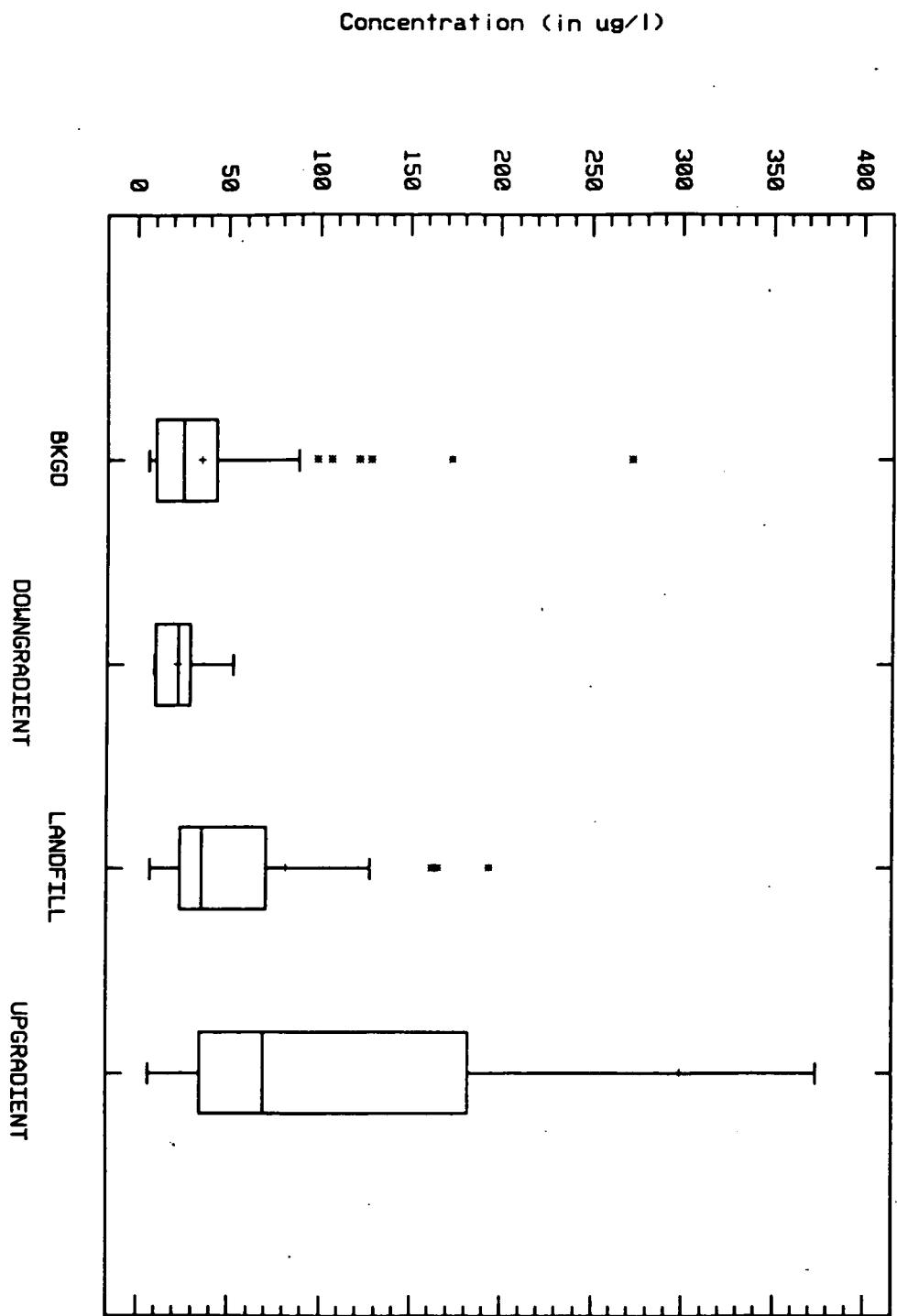


Zinc (Total): Groundwater

Background vs. OU7 UHSU

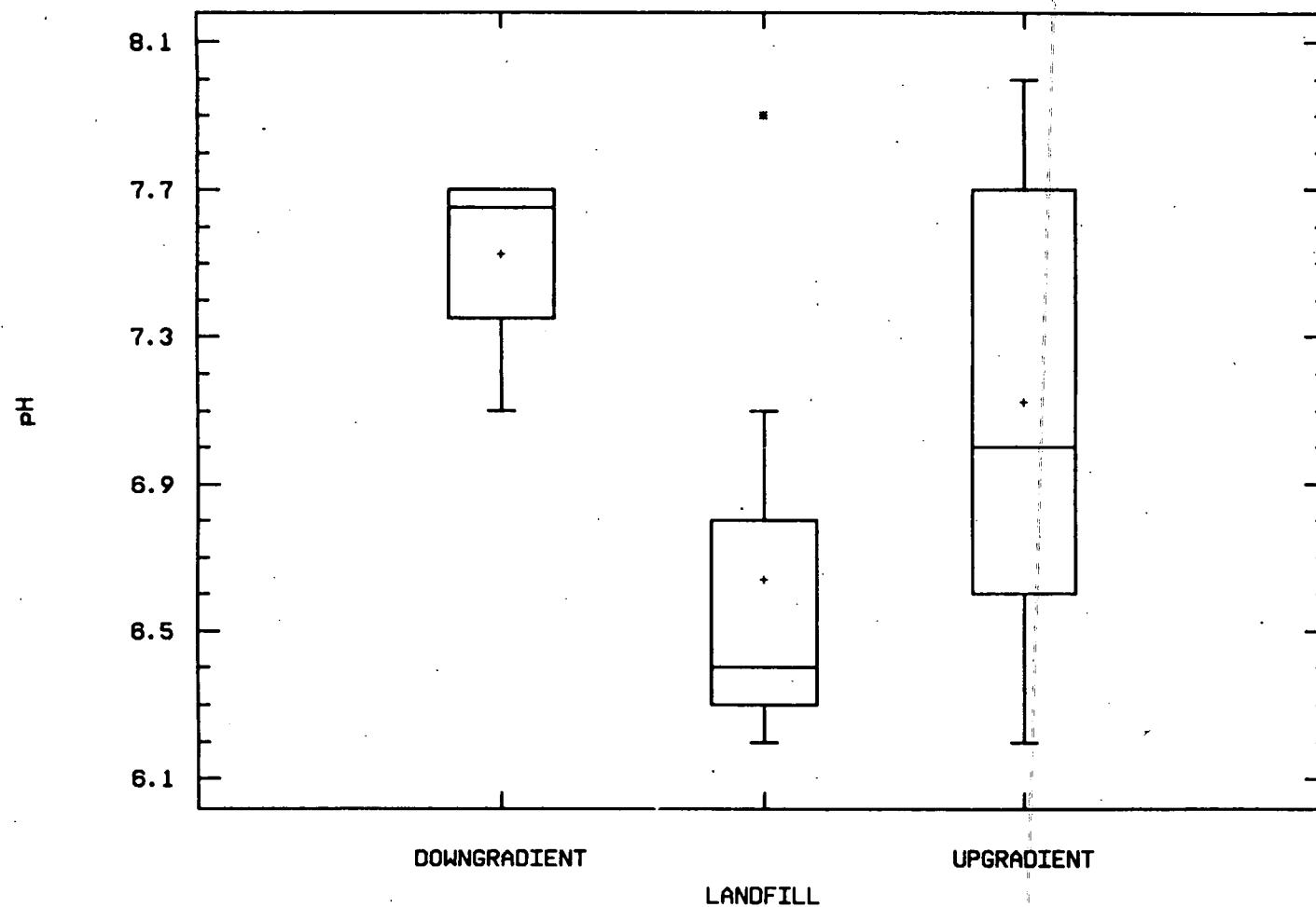


Zinc (Total): Groundwater
Background vs. 017 UHSU



pH (Total): Groundwater

Background vs. OU7 UHSU



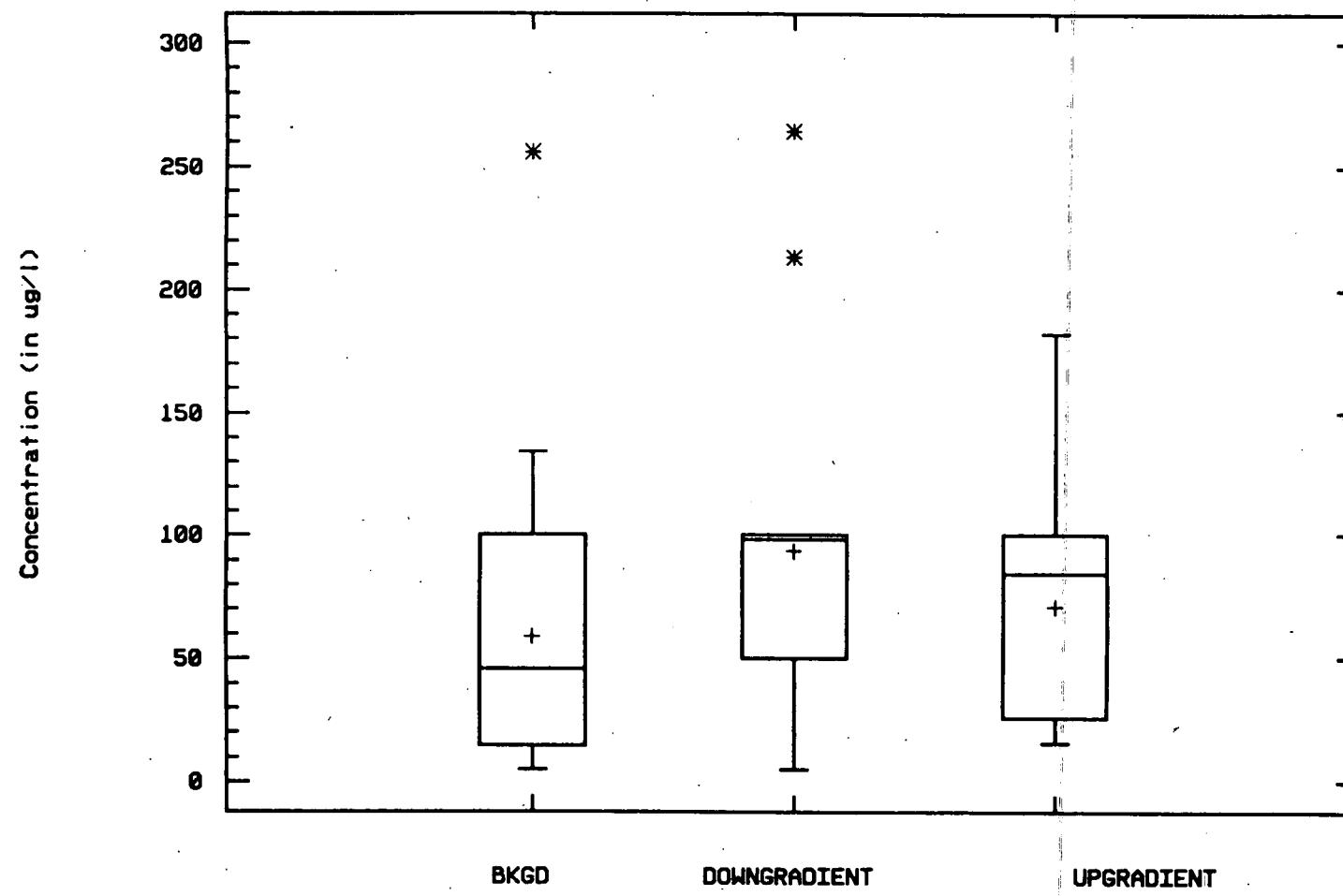
Background vs. OU 7 LHSU

(Dissolved)

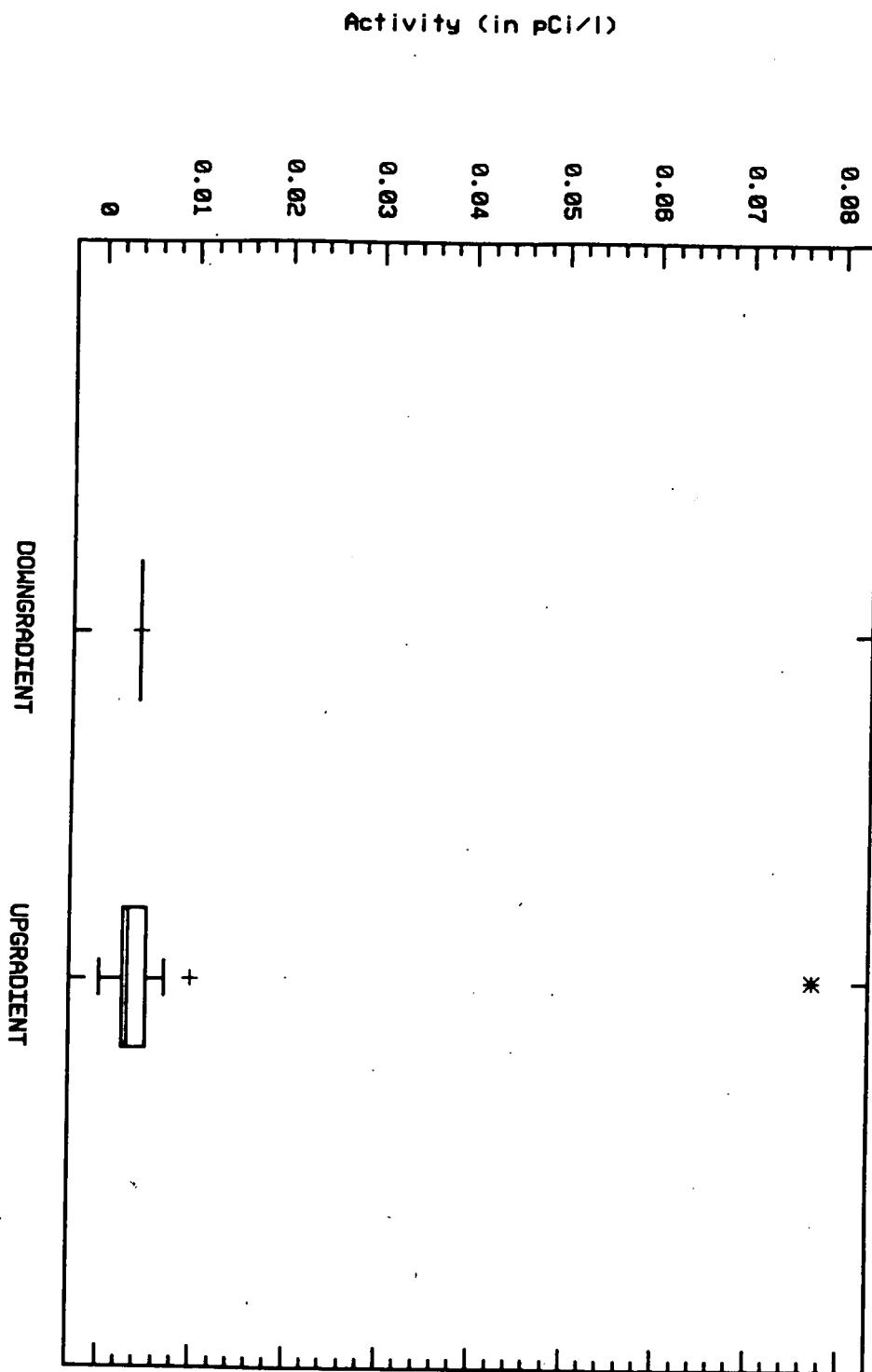
Groundwater



Aluminum (Dissolved): Groundwater
Background vs. OU7 LHSU

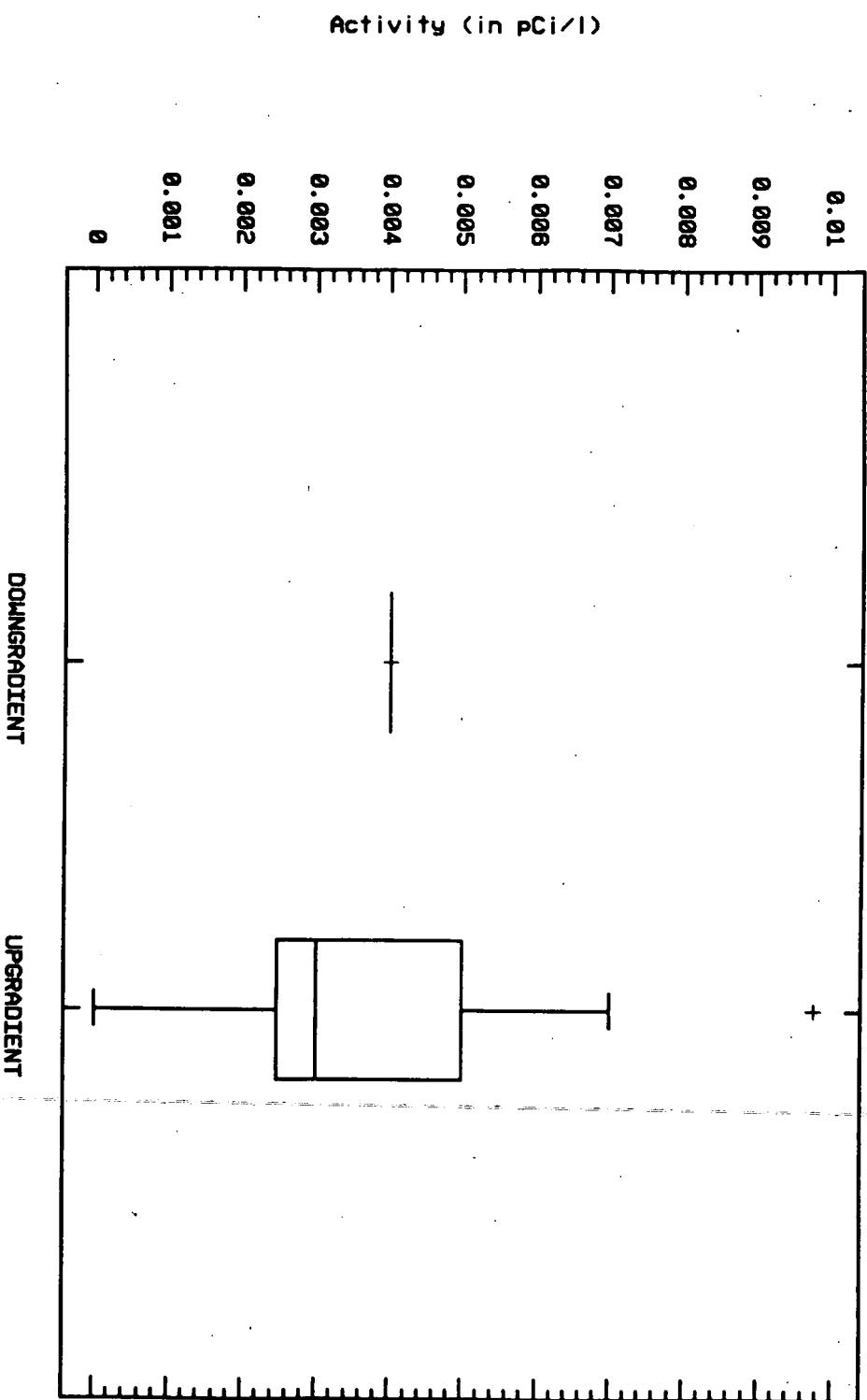


Americium-241 (Dissolved): Groundwater
Background vs. 0U7 LHSU



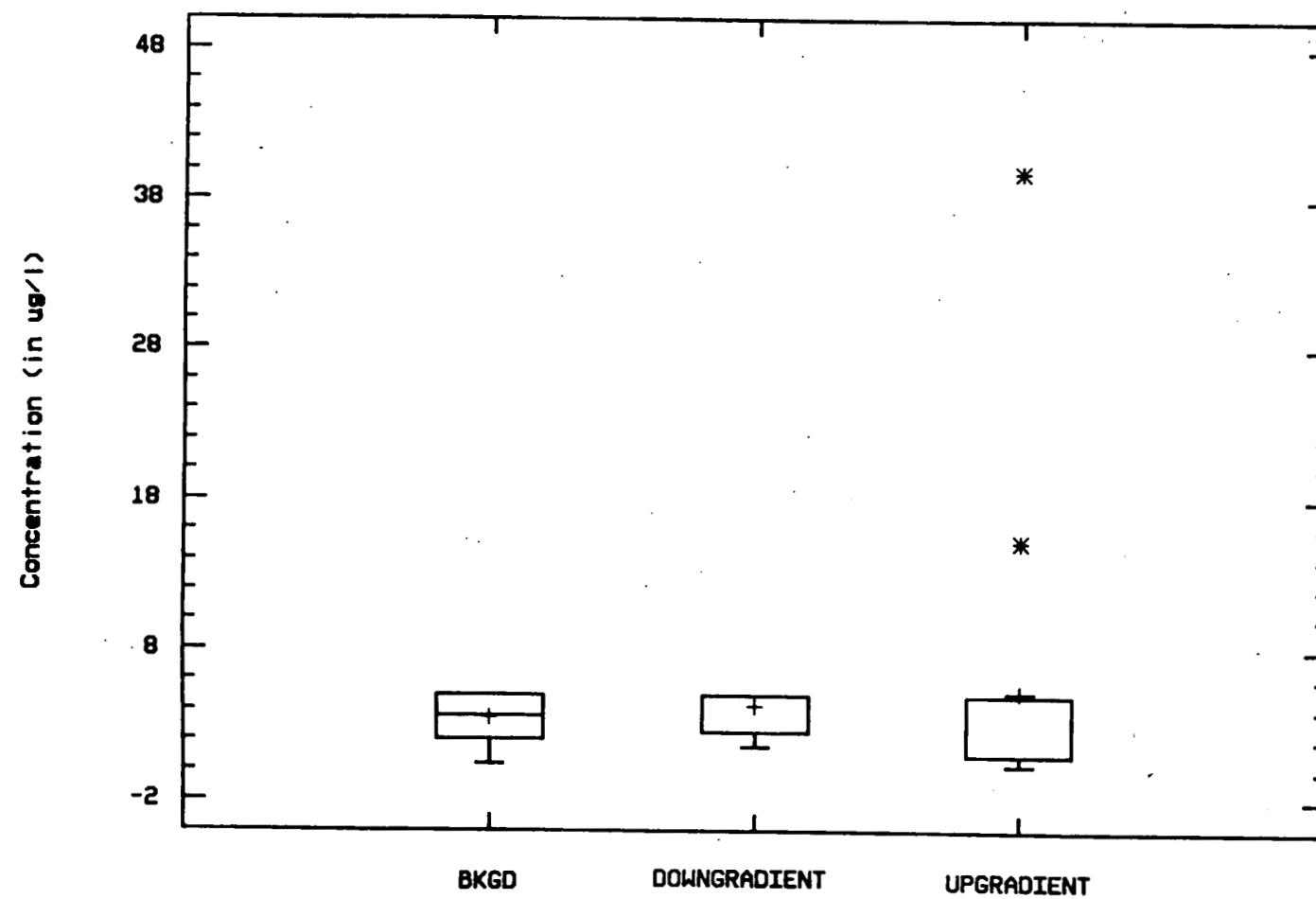
Americium-241 (Dissolved): Groundwater

Background vs. D17 LHSU

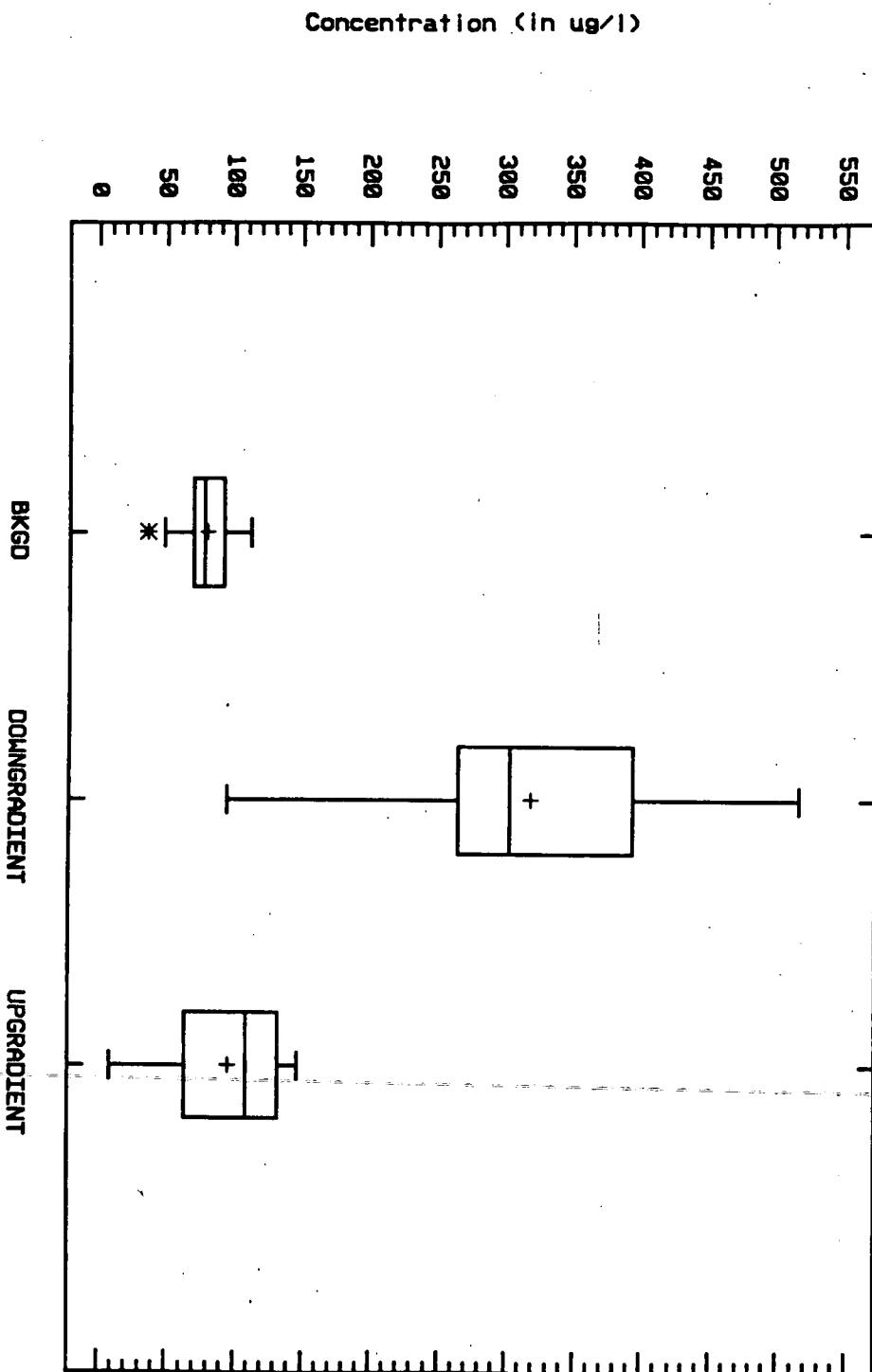


Arsenic (Dissolved): Groundwater

Background vs. OU7 LHSU

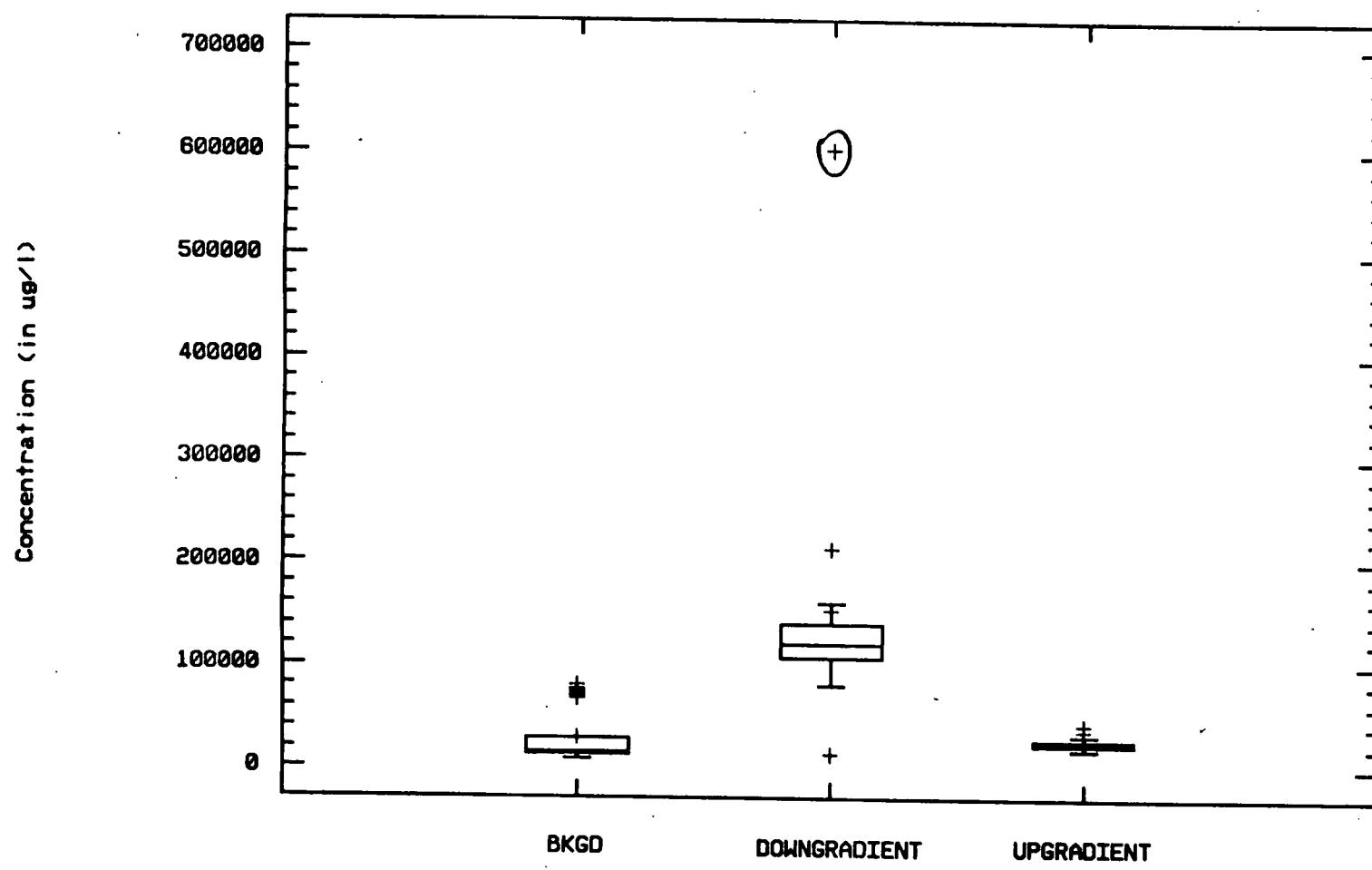


Barium (Dissolved): Groundwater
Background vs. DJT LHSU



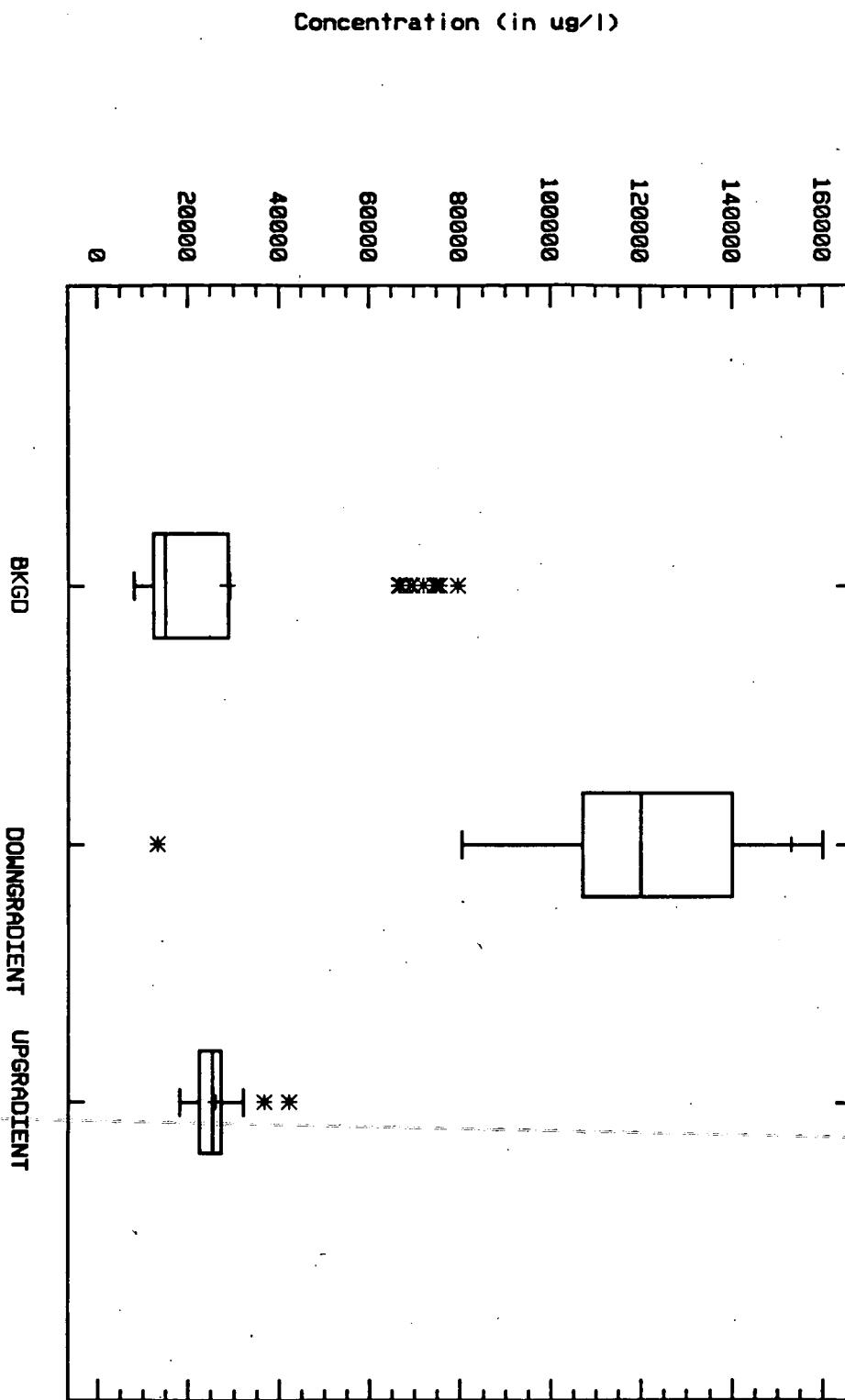
Calcium (Dissolved): Groundwater

Background vs. OU7 LHSU



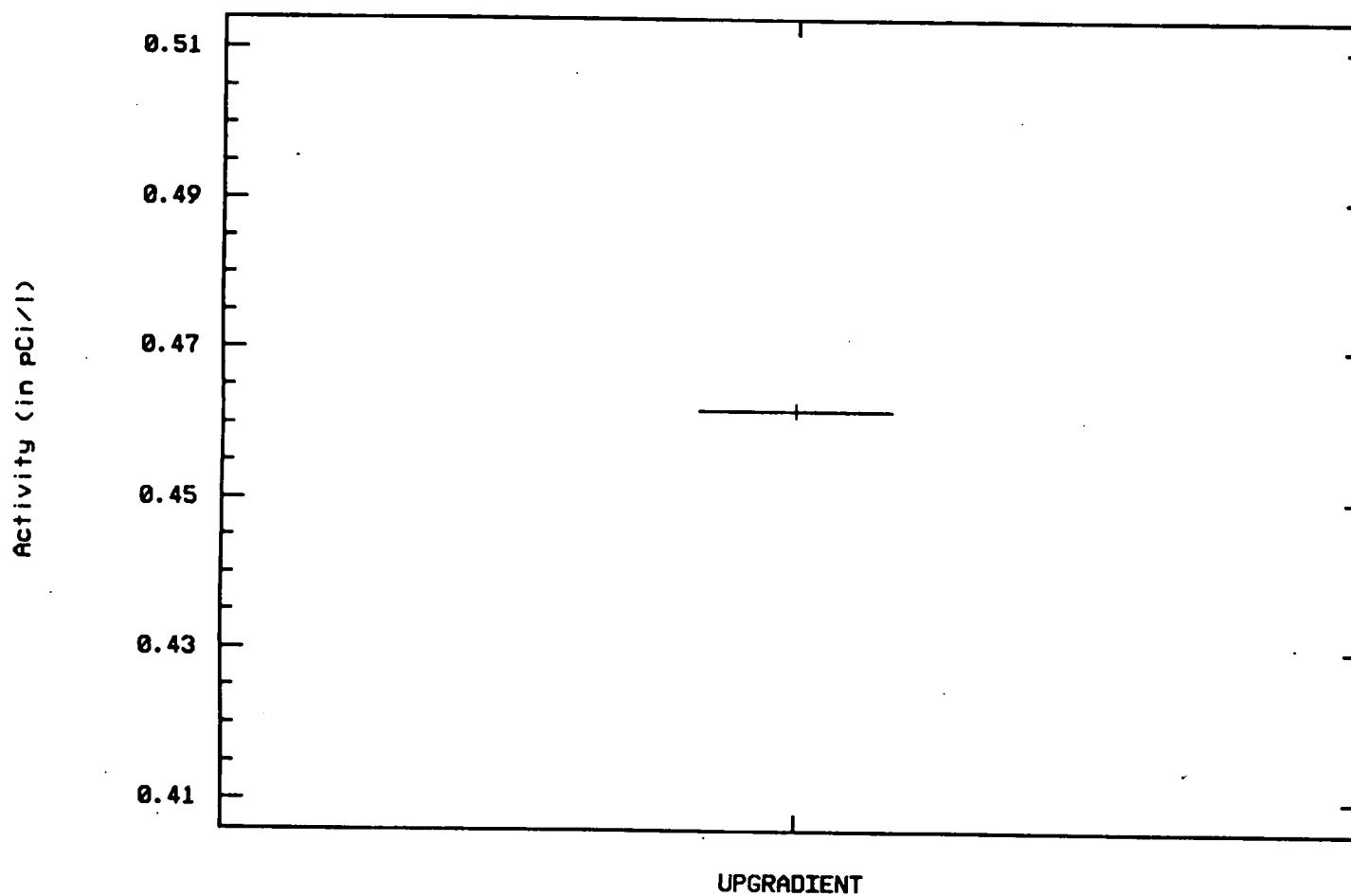
Calcium (Dissolved): Groundwater

Background vs. DJ7 LHSU

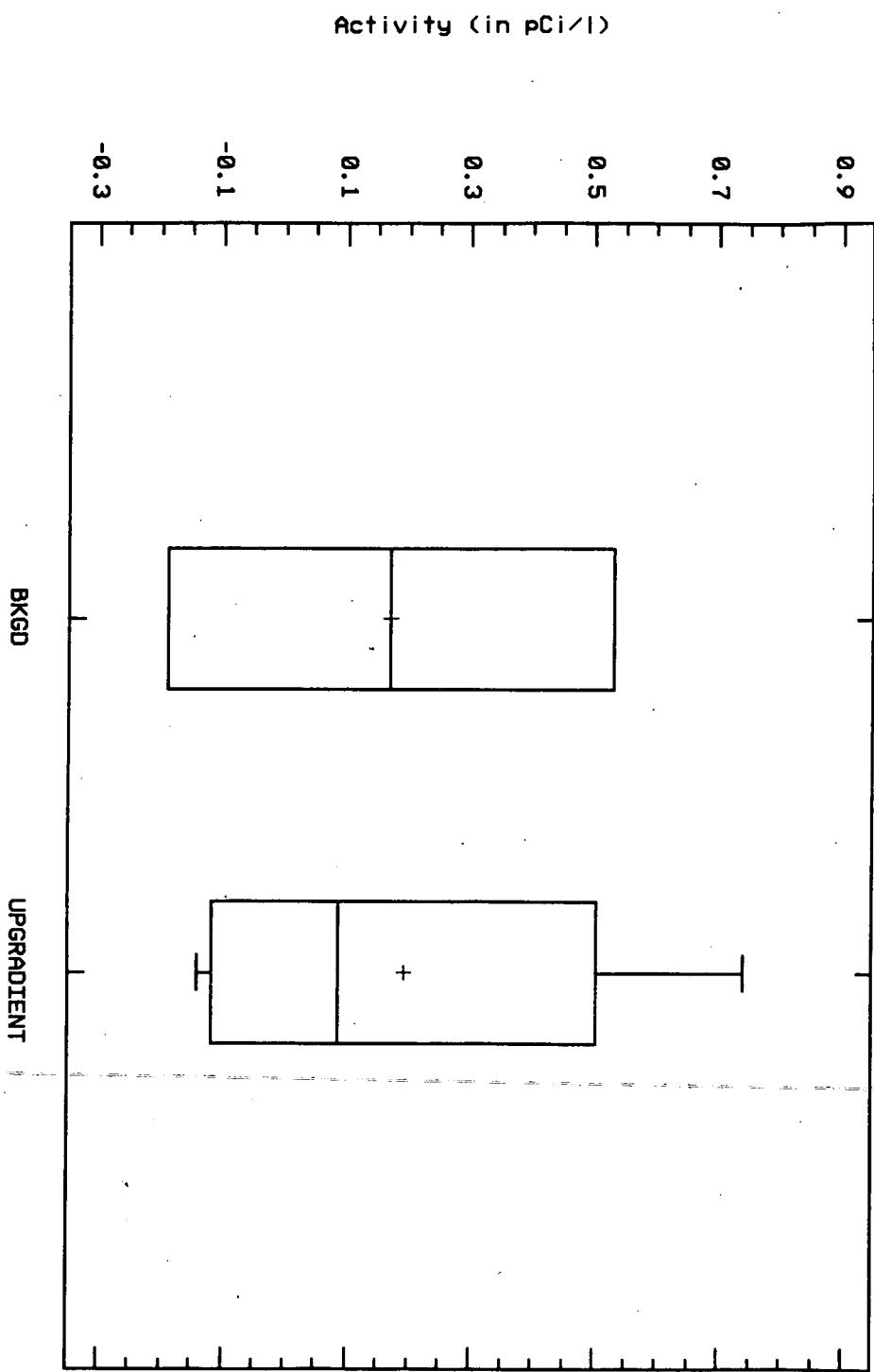


Cesium-134 (Dissolved): Groundwater

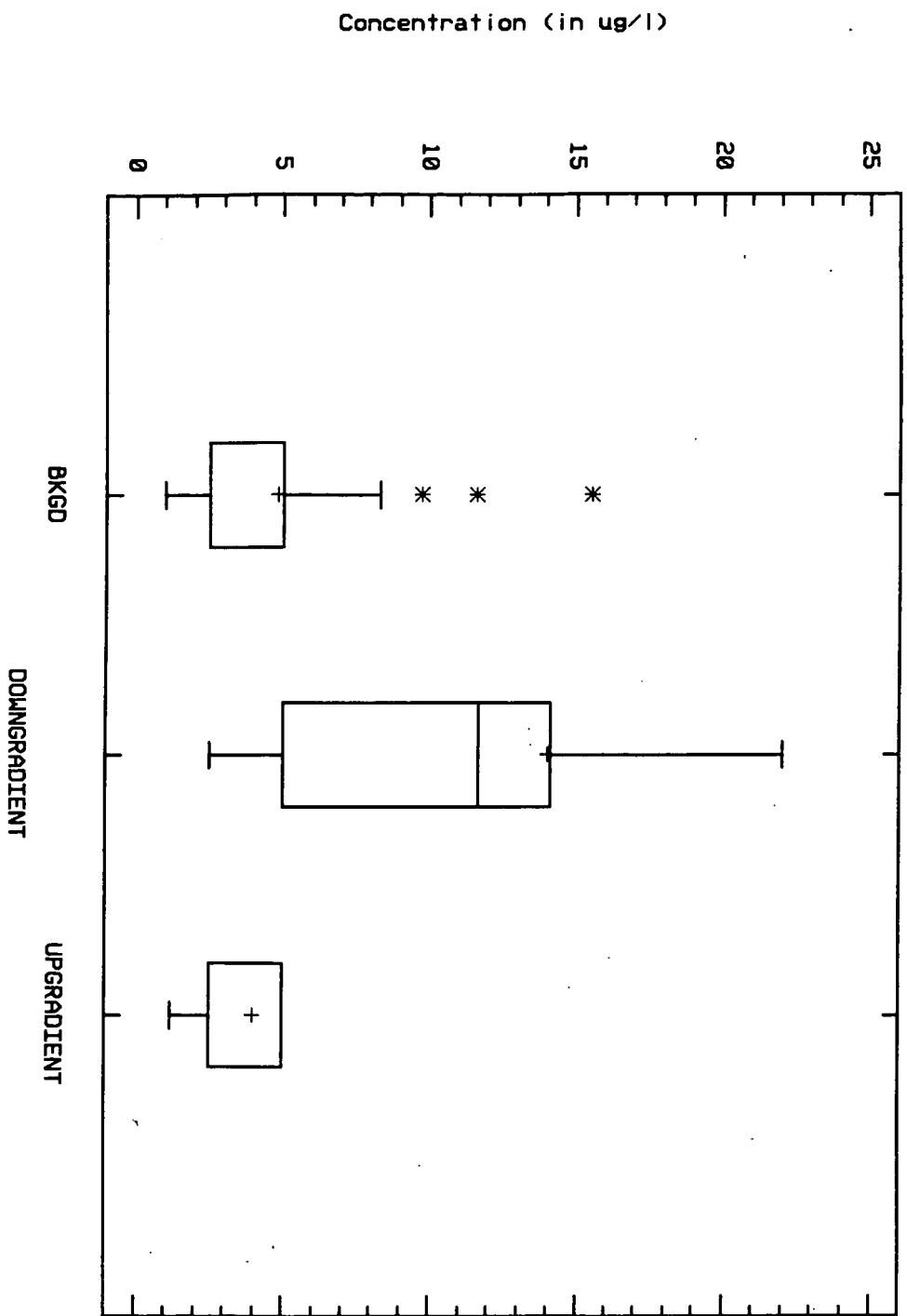
Background vs. 0U7 LHSU



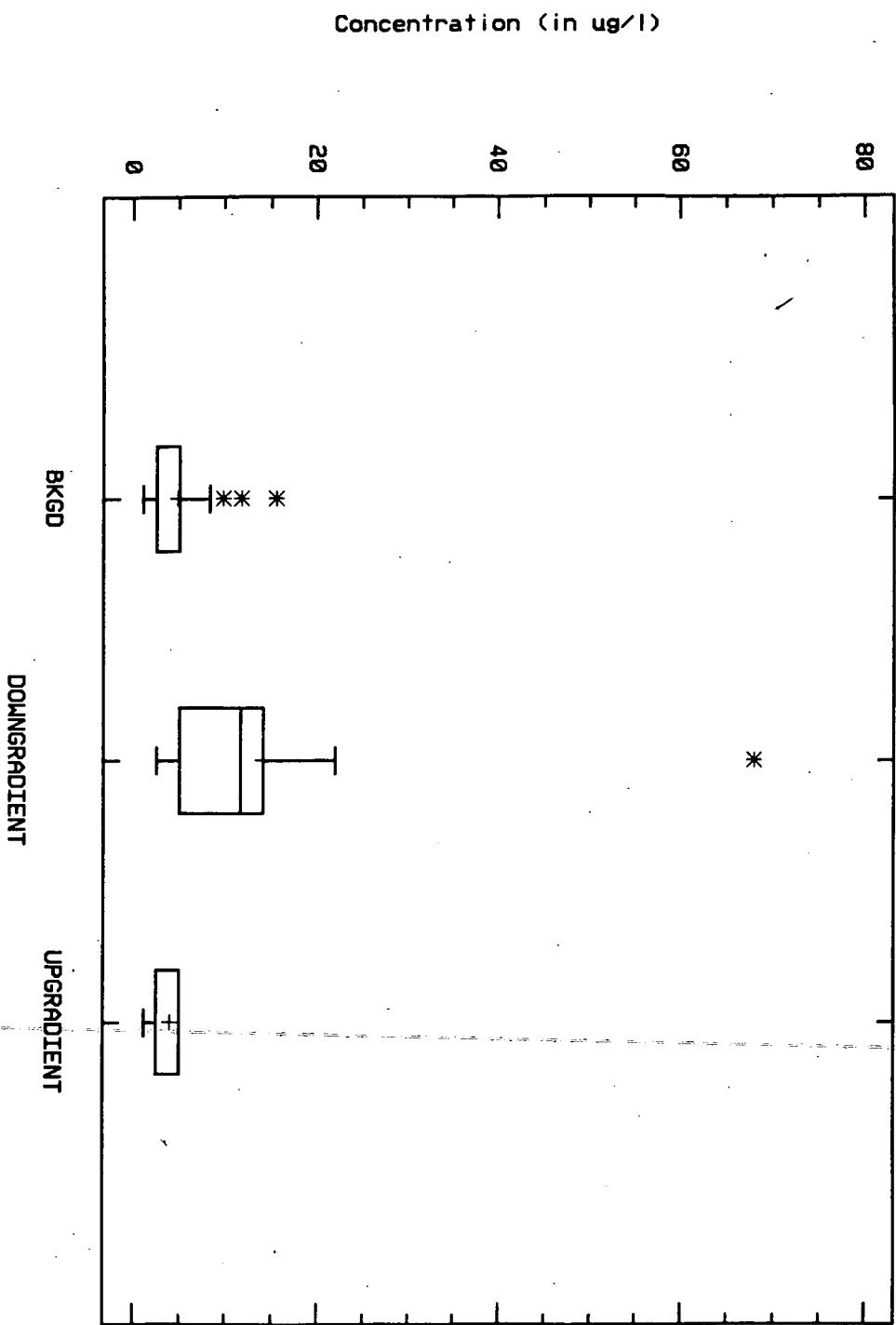
Cesium-137 (Dissolved): Groundwater
Background vs. OUT LHSU



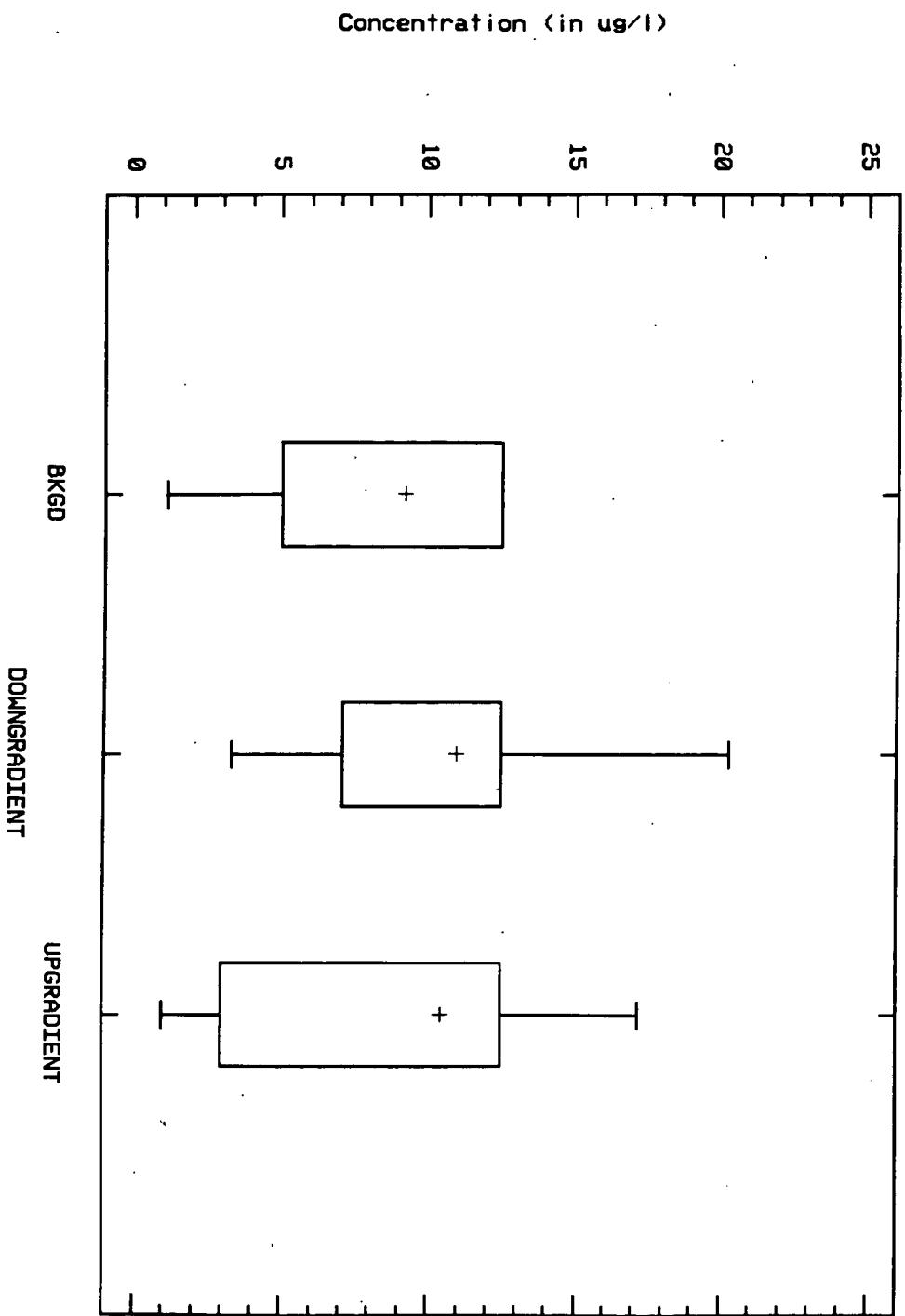
Chromium (Dissolved): Groundwater
Background vs. 017 LHSU



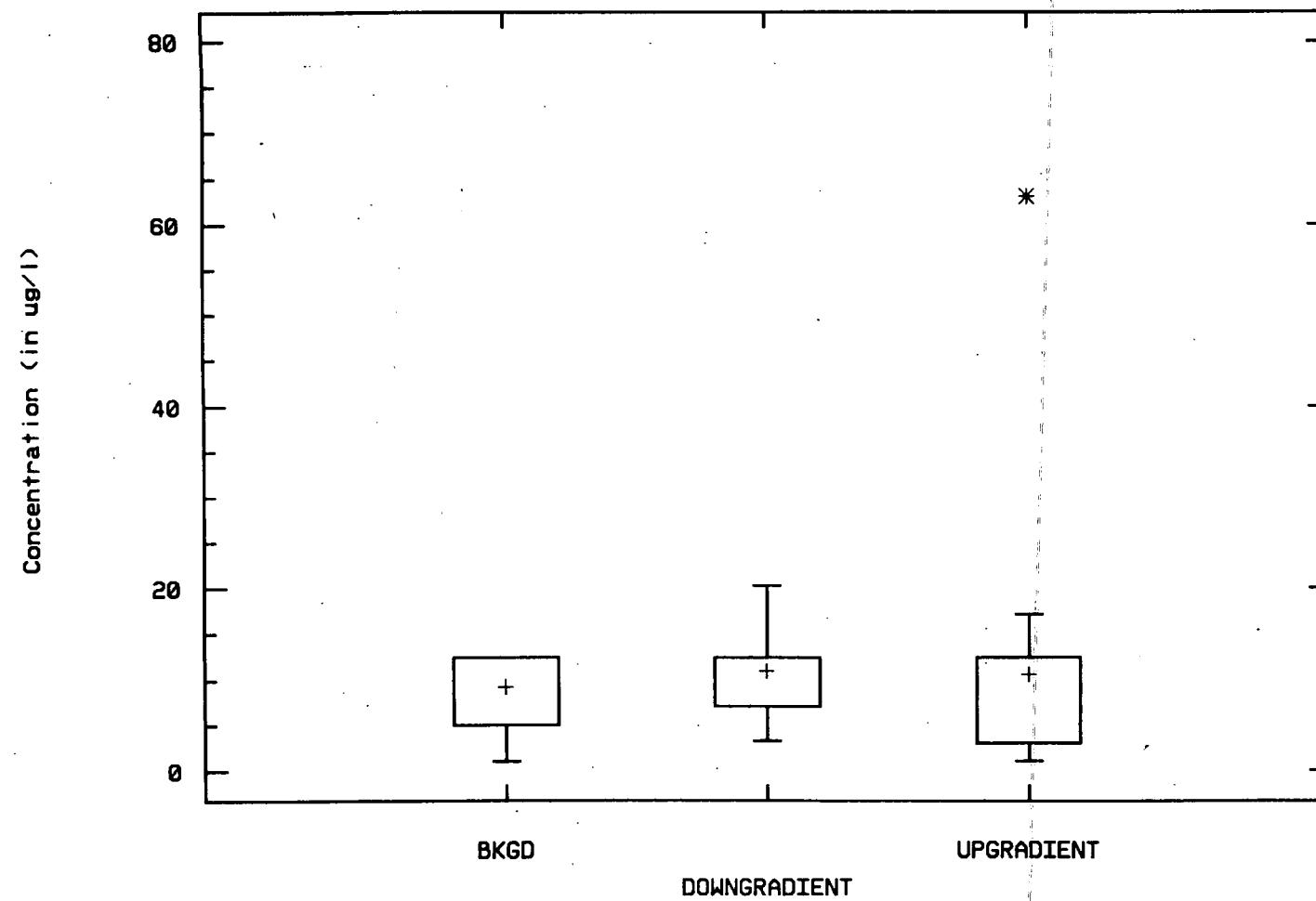
Chromium (Dissolved): Groundwater
Background vs. OJ7 μ HSU



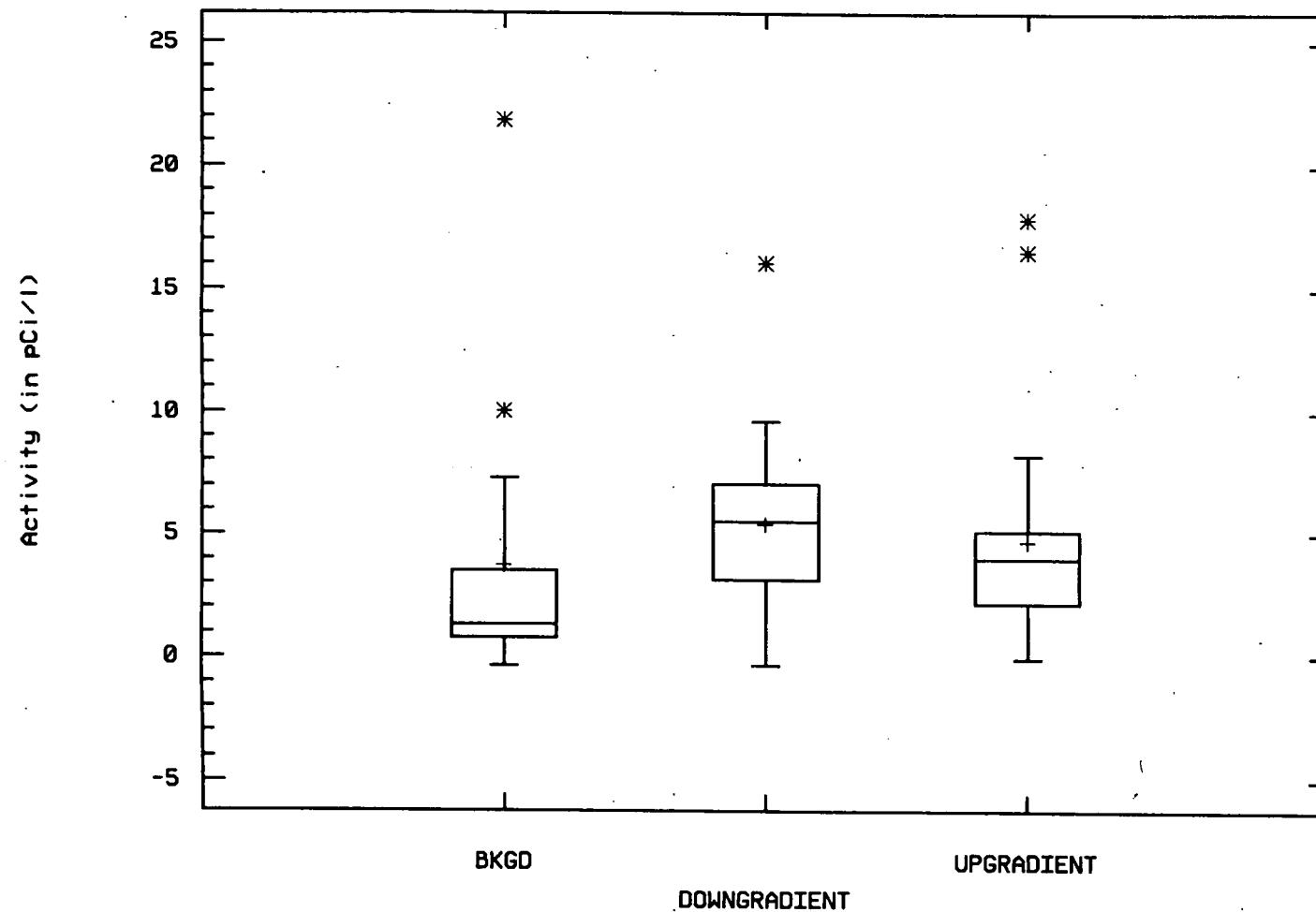
Copper (Dissolved): Groundwater
Background vs. OUT LHSU



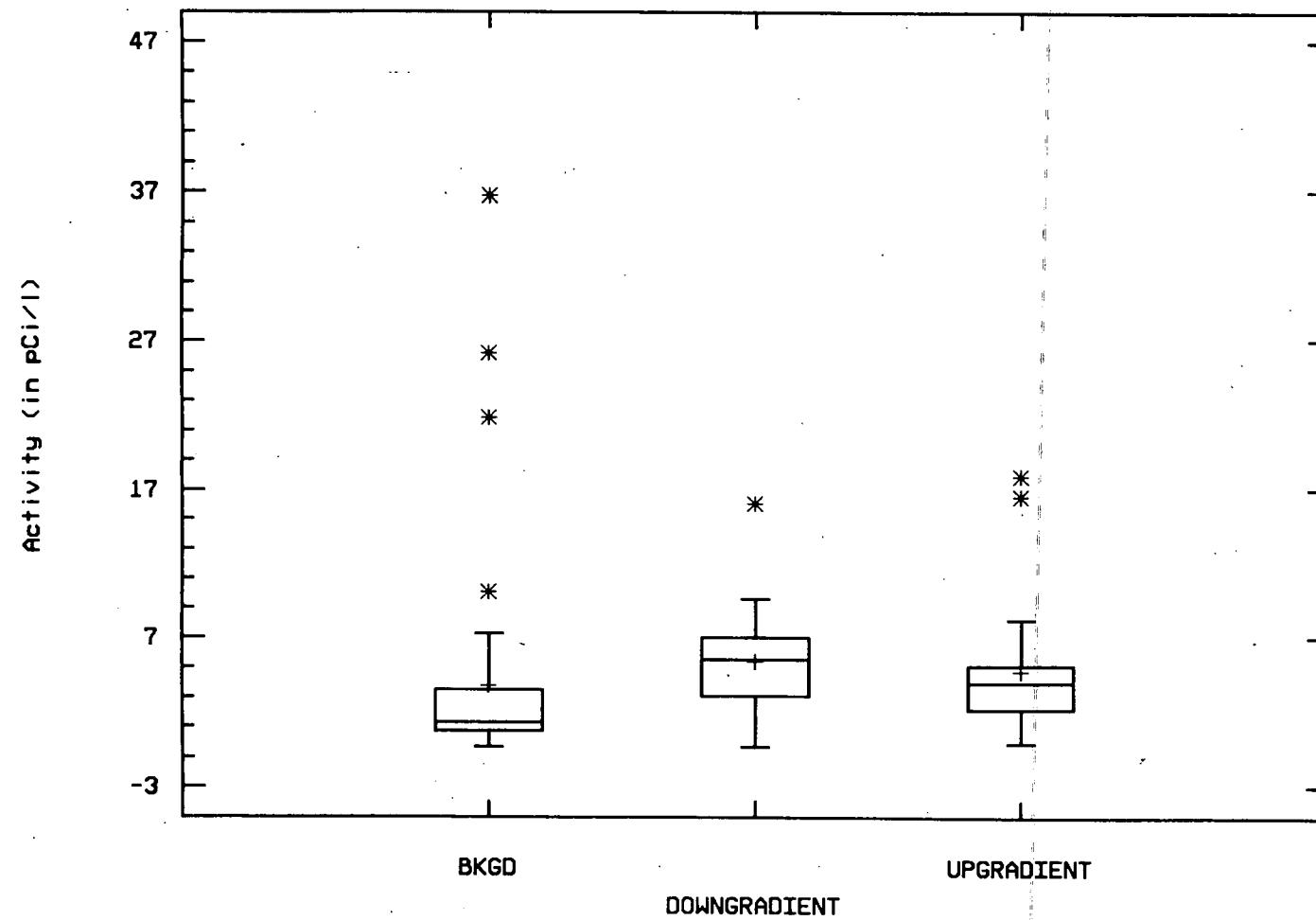
Copper (Dissolved): Groundwater
Background vs. OU7 JHSU



Gross Alpha (Dissolved): Groundwater
Background vs. OU7 LHSU

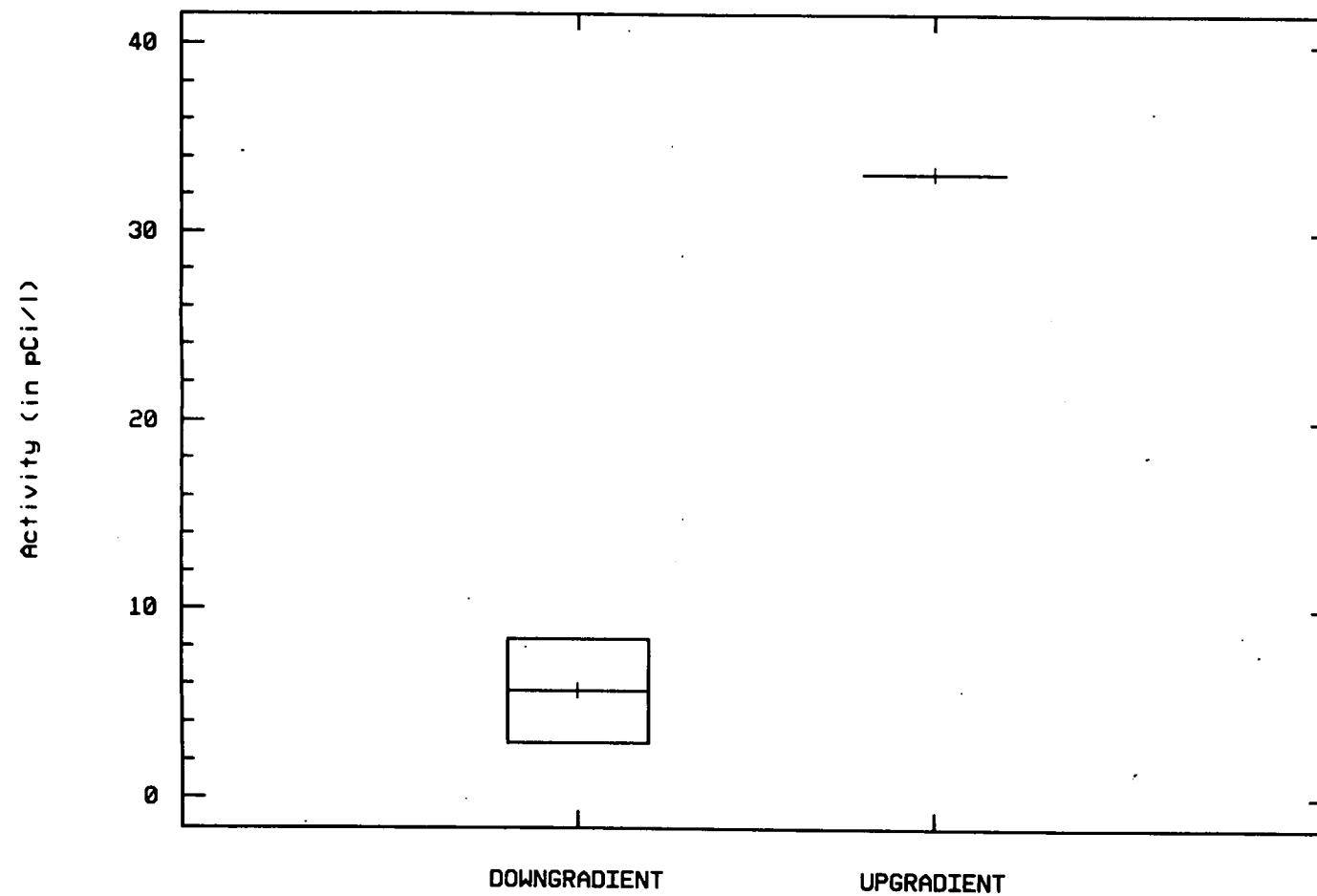


Gross Alpha (Dissolved): Groundwater
Background vs. OU7 JHSU

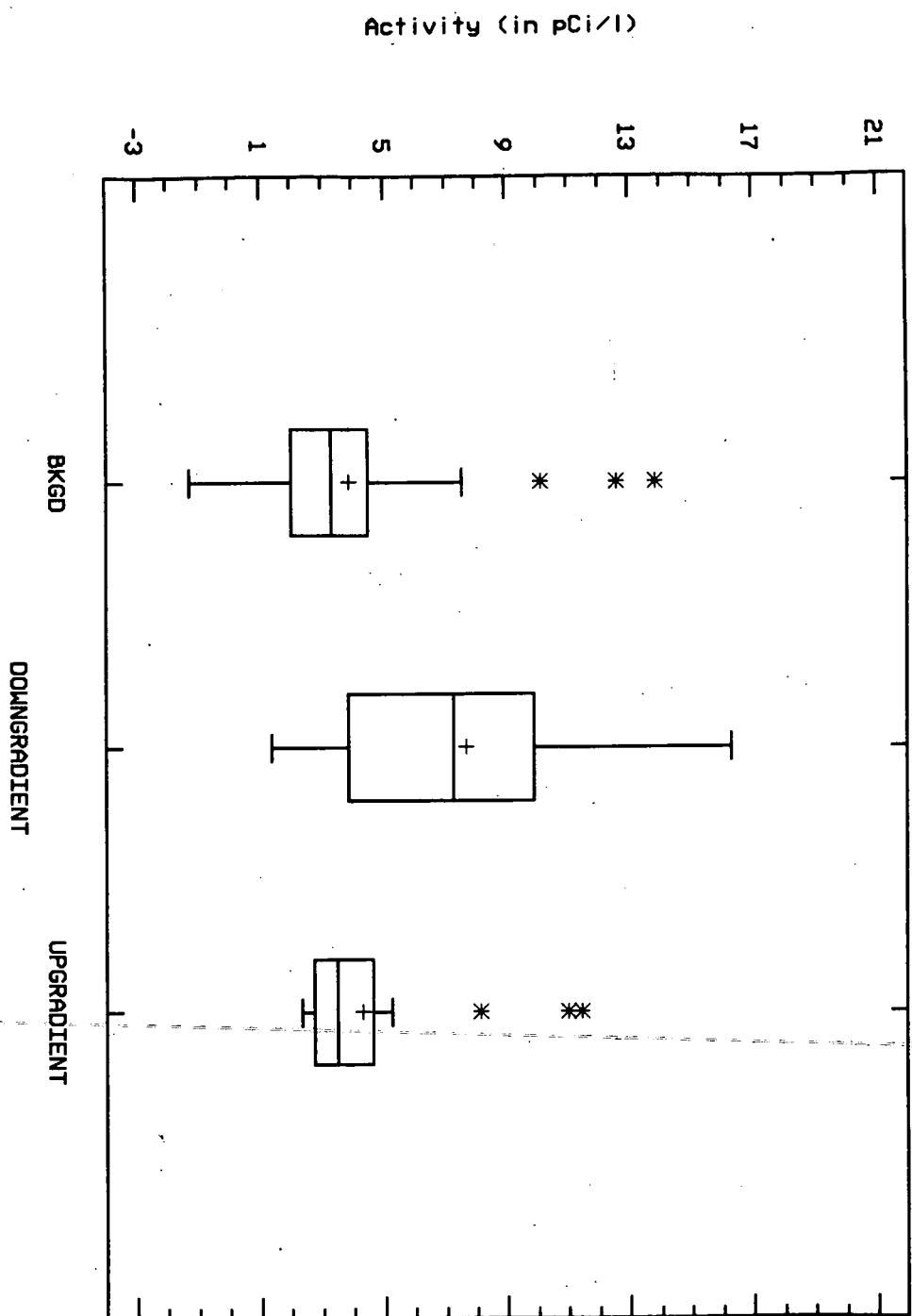


Gross Alpha - Suspended(?) : Groundwater

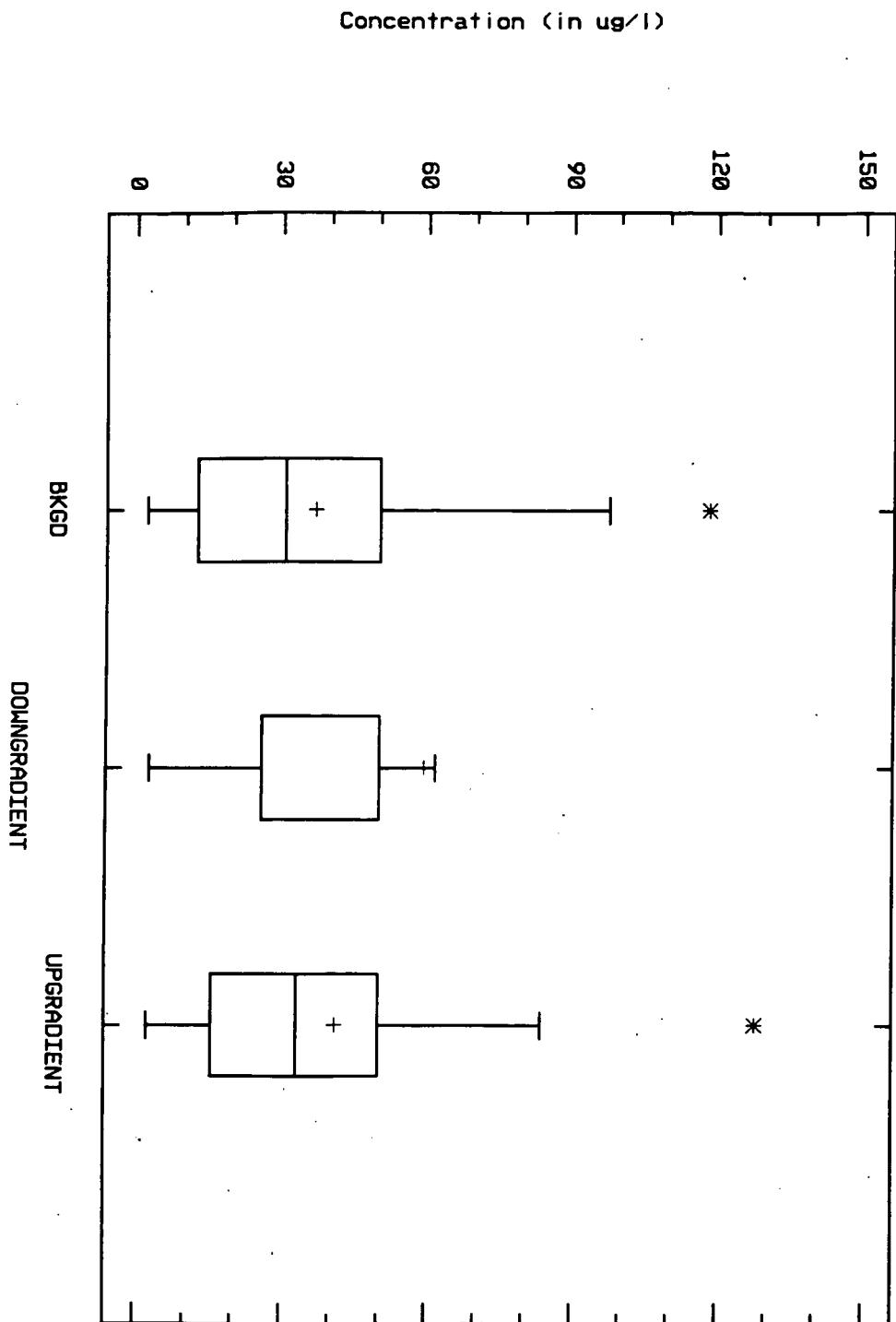
Background vs. OU7 LHSU



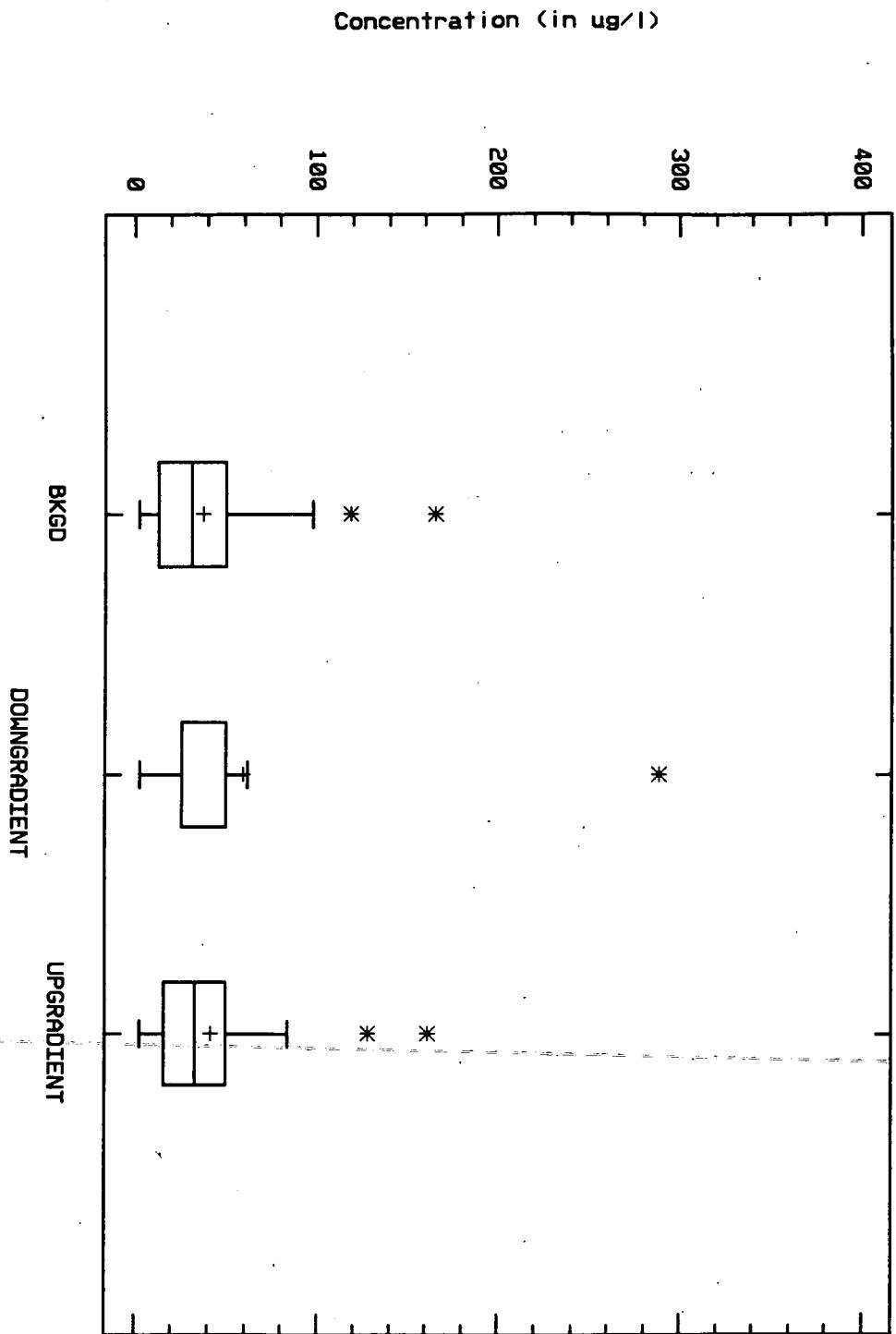
Gross Beta (Dissolved): Groundwater
Background vs. 017 LHSU



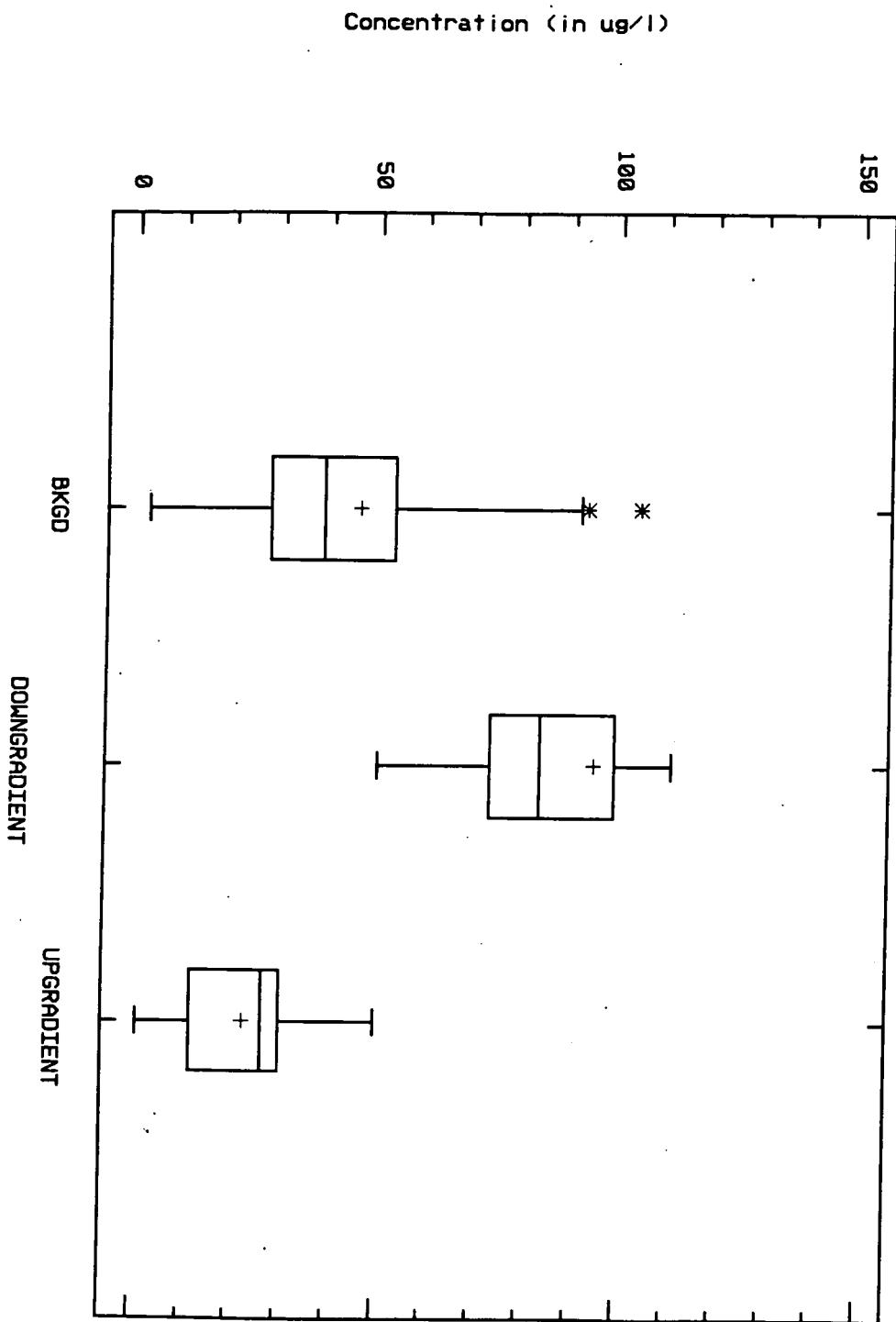
Iron (Dissolved): Groundwater
Background vs. GJ7 LHSU



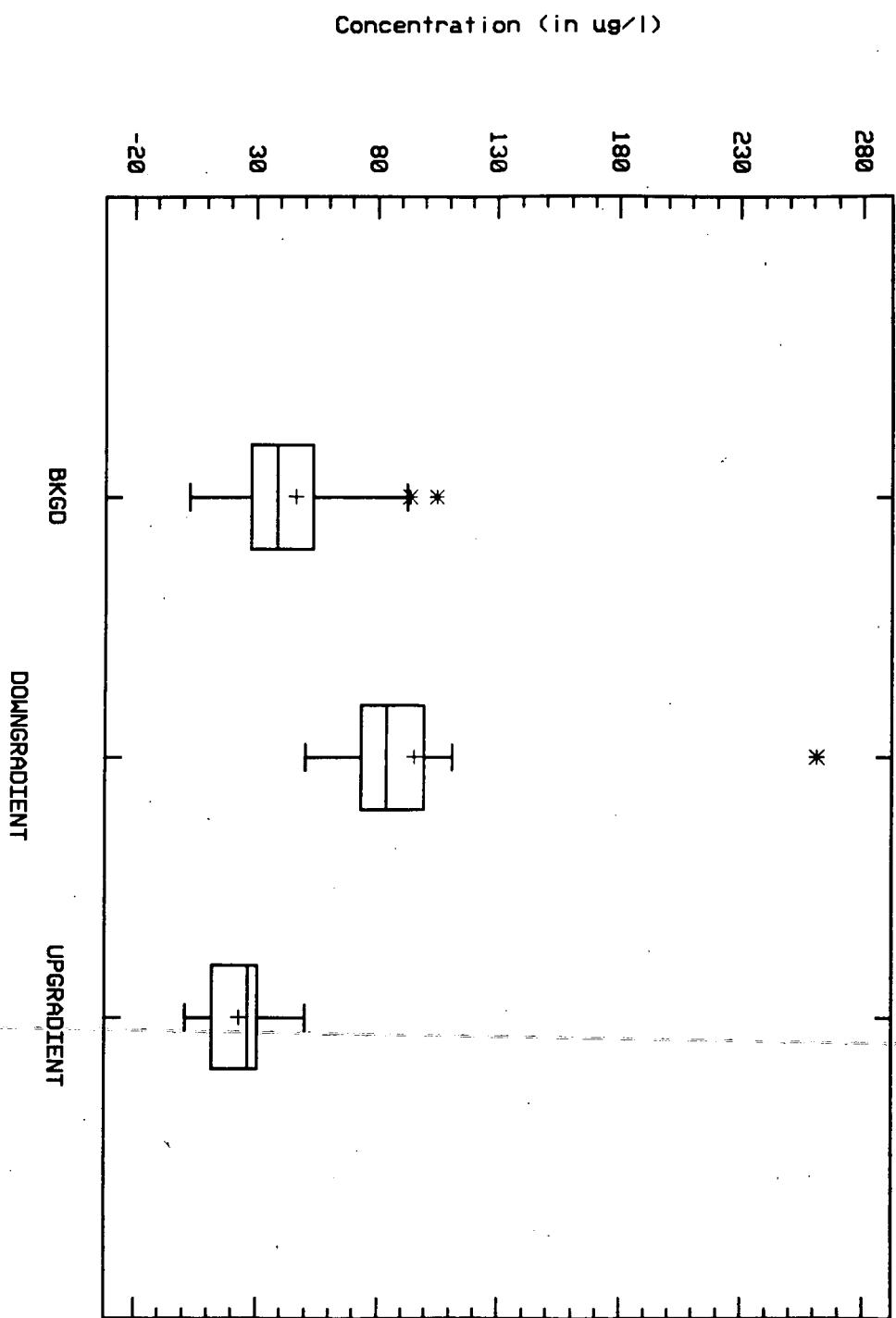
Iron (Dissolved): Groundwater
Background vs. out Δ Hsu



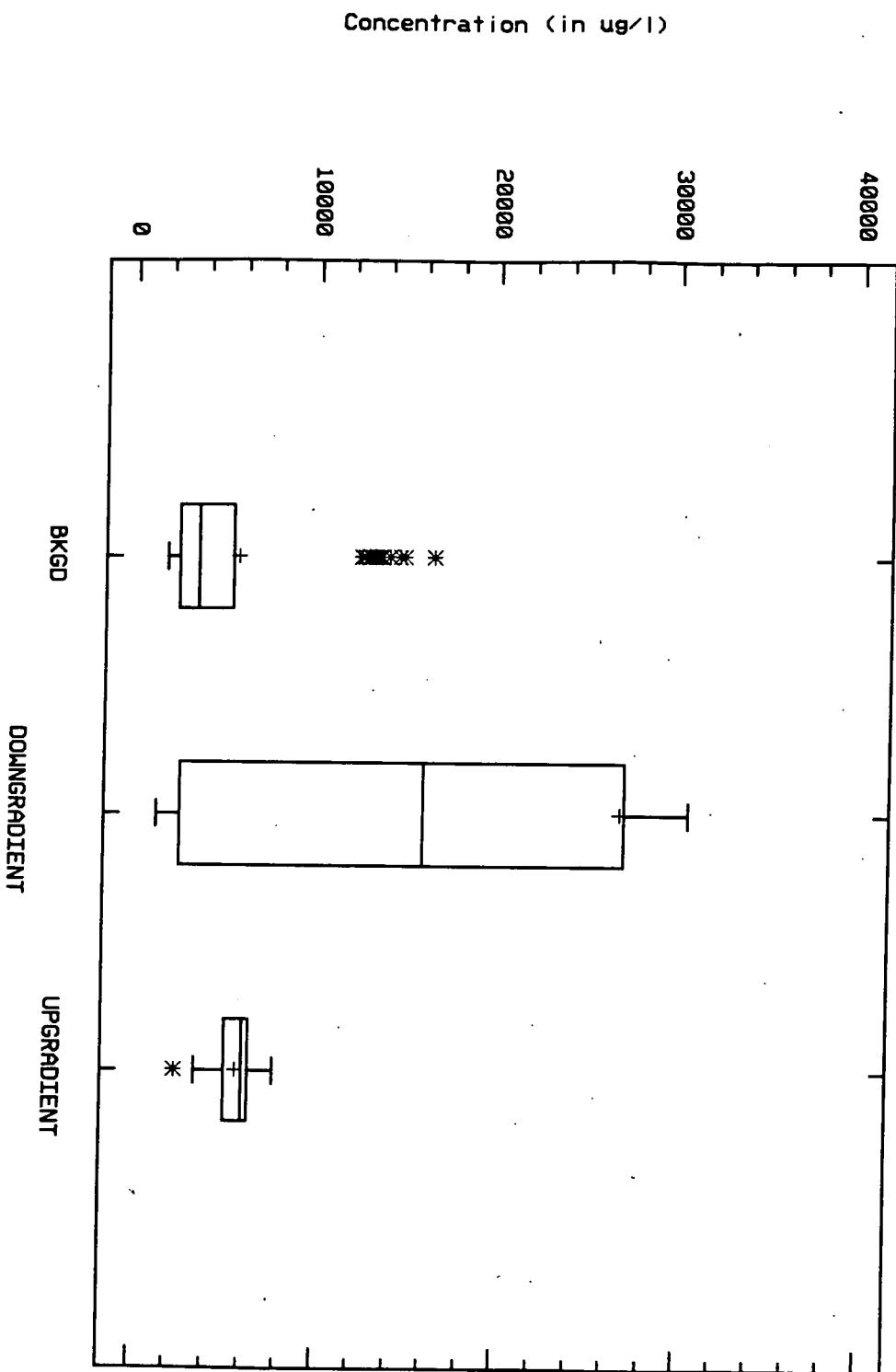
Lithium (Dissolved): Groundwater
Background vs. OUT LHSU



Lithium (Dissolved): Groundwater
Background vs. OUT μ HgSU

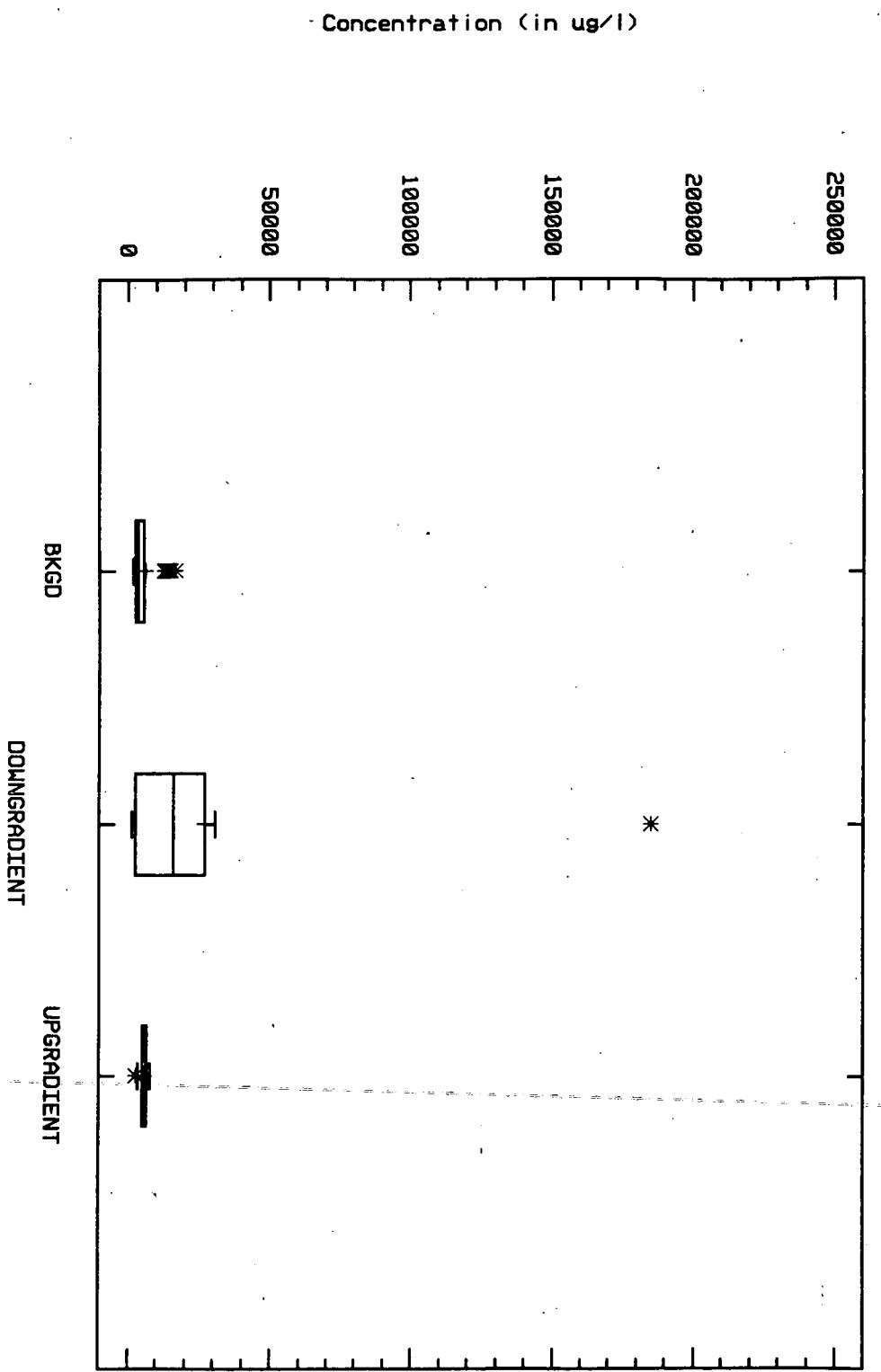


Magnesium (Dissolved): Groundwater
Background vs. OUT LHSU



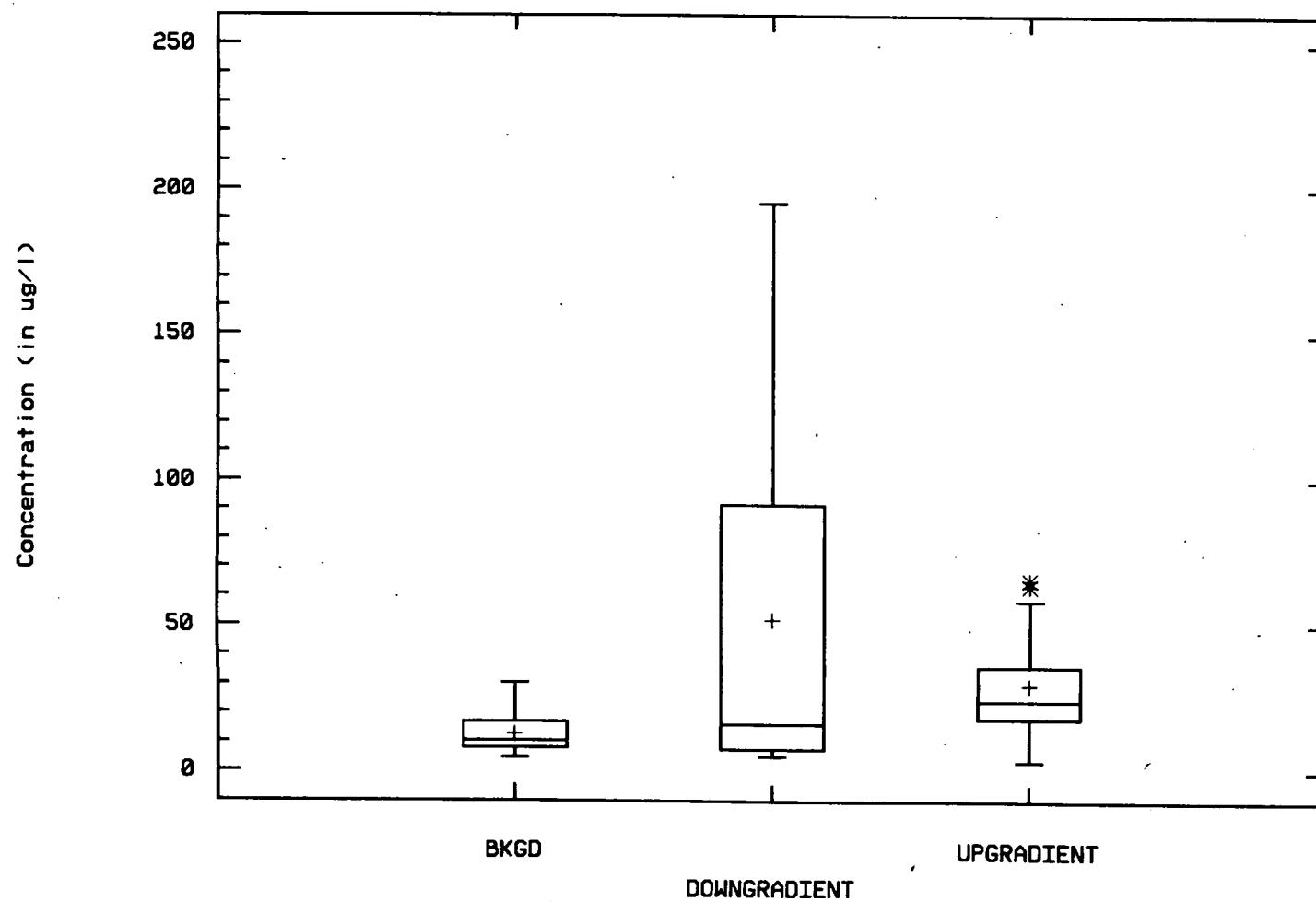
Magnesium (Dissolved): Groundwater

Background vs. OJ7 μ HSU

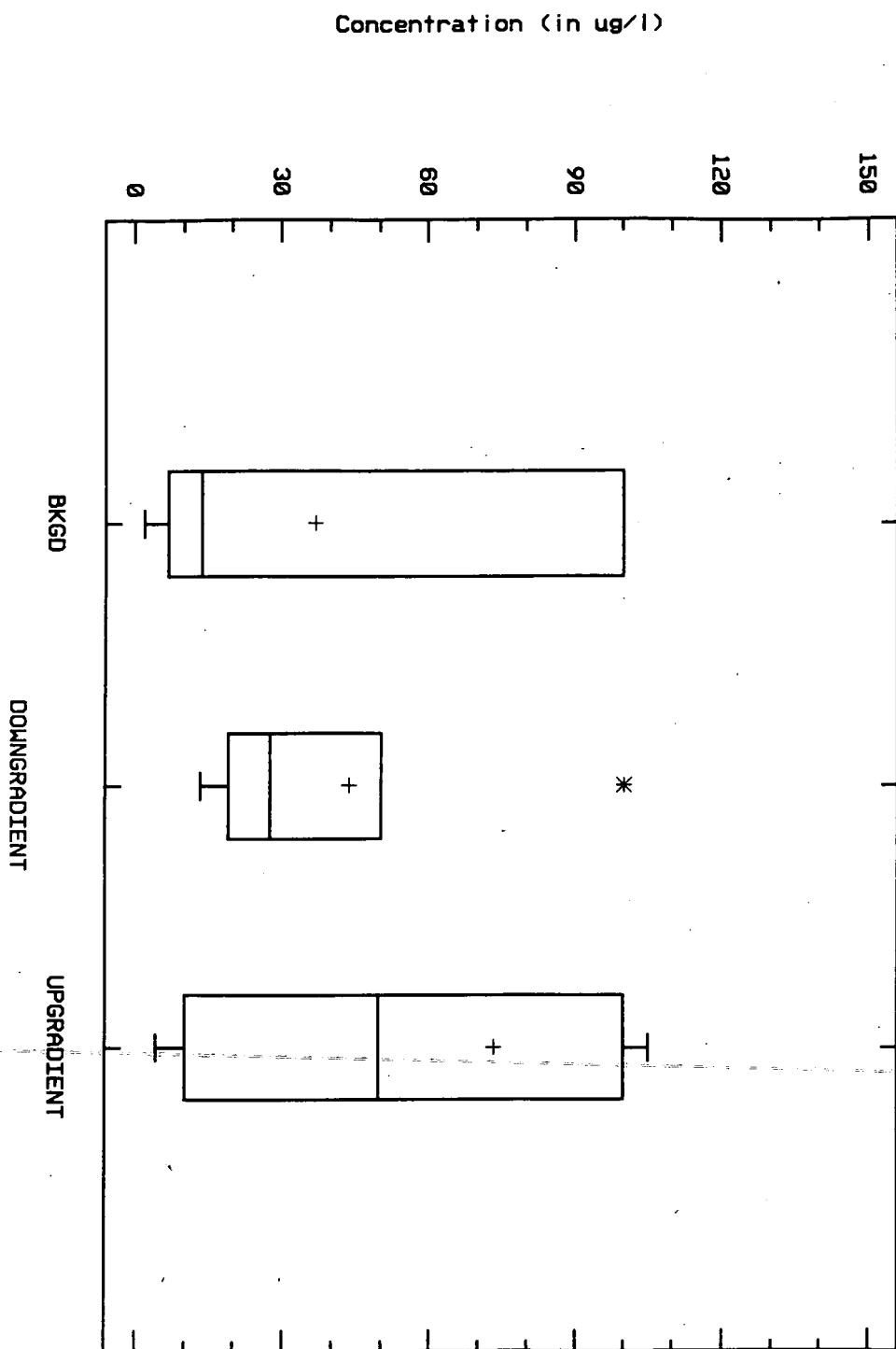


Manganese (Dissolved): Groundwater

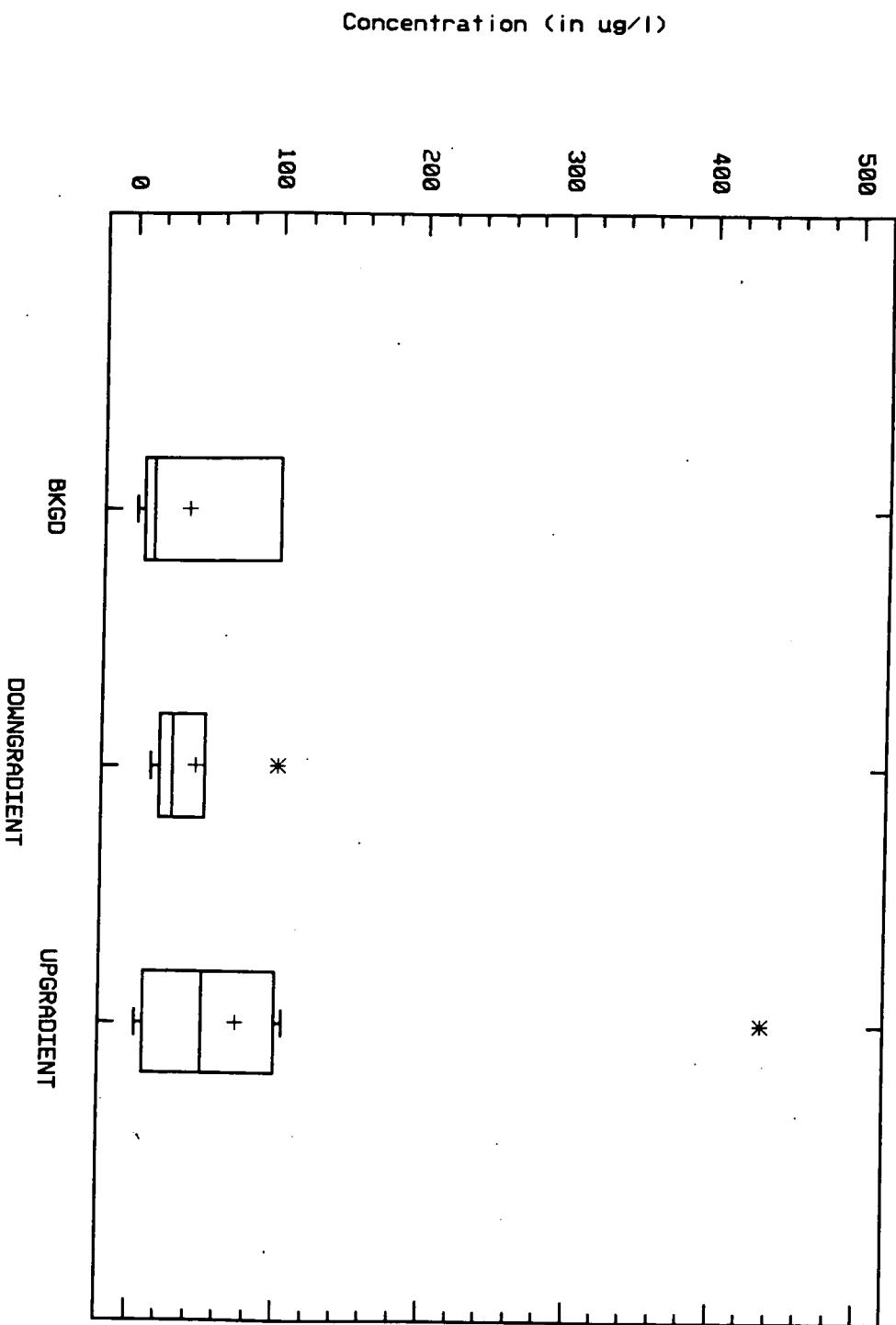
Background vs. OU7 LHSU



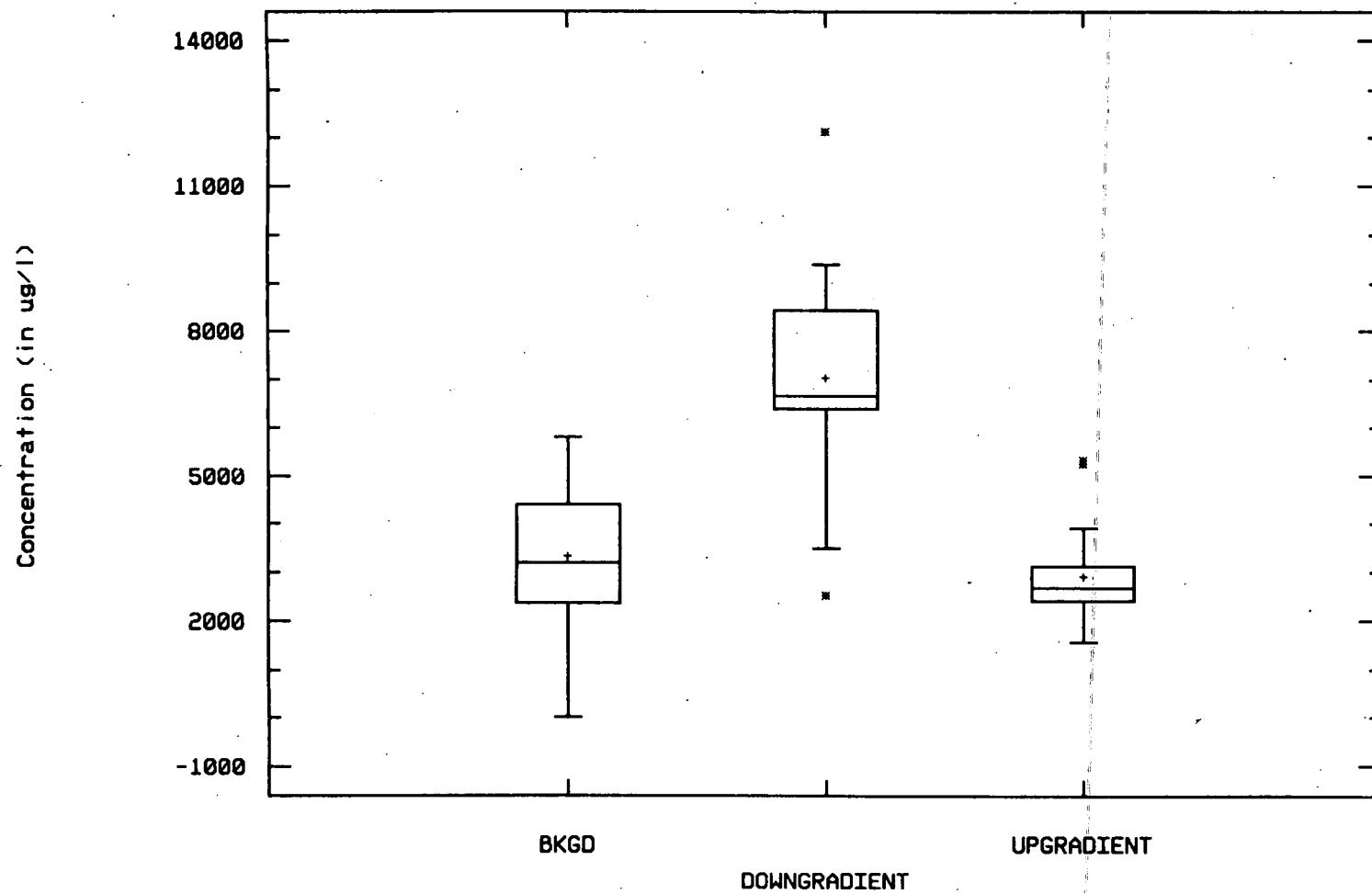
Molybdenum (Dissolved): Groundwater
Background vs. OUT LHSU



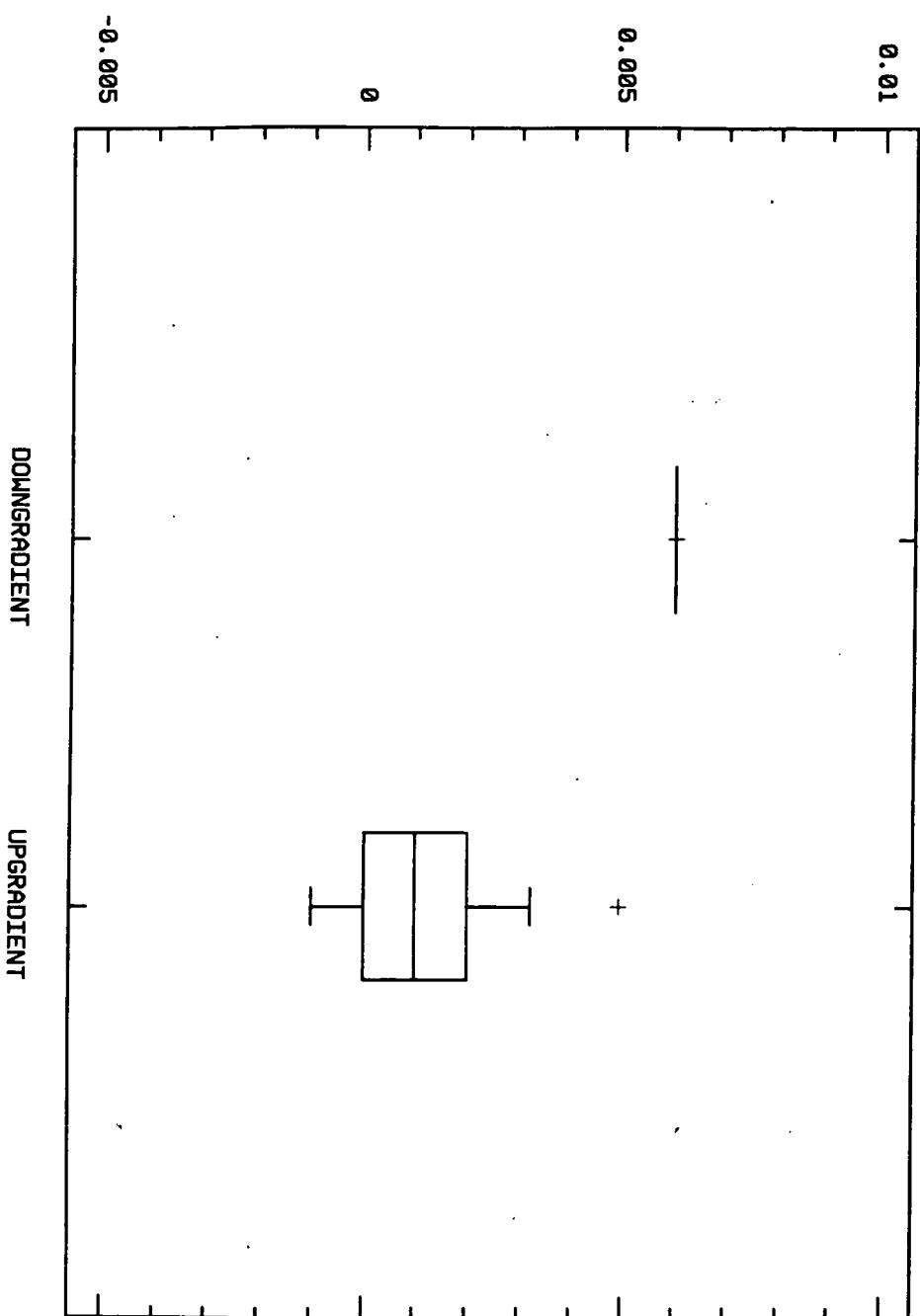
Mo lybdenum (Dissolved): Groundwater
Background vs. Our μ HgS



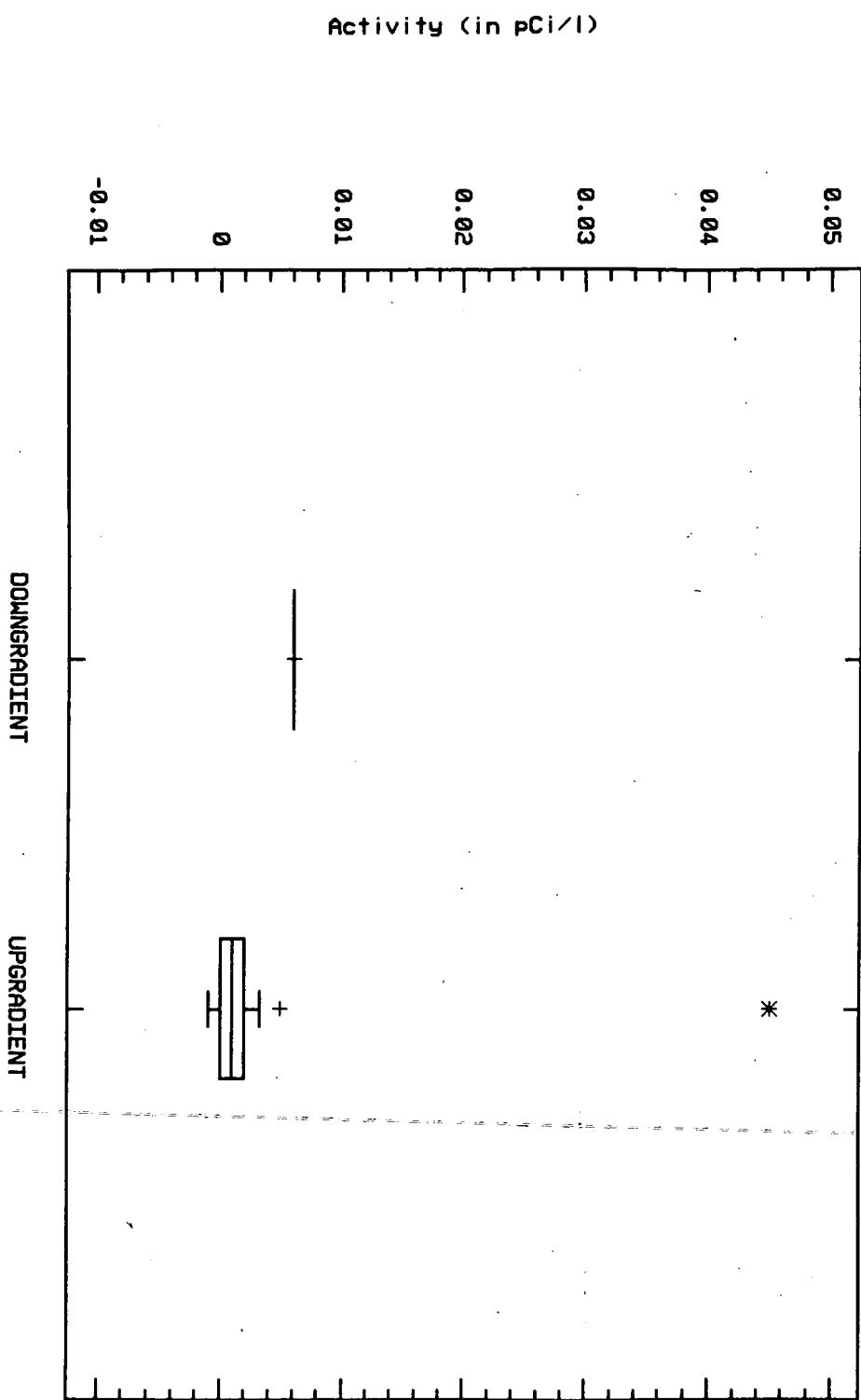
Potassium (Dissolved): Groundwater
Background vs. OU7 LHSU



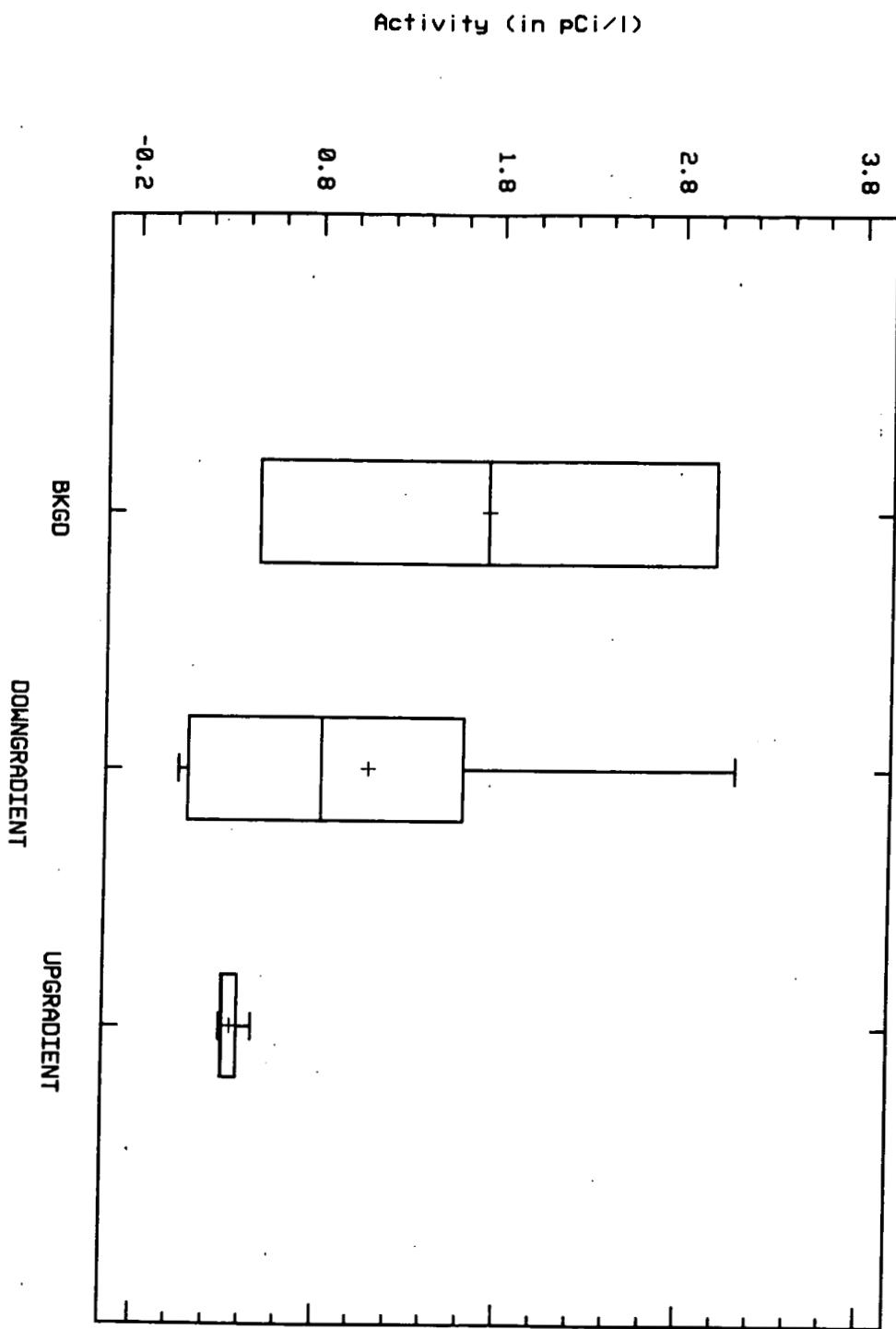
Activity (in pCi/l)



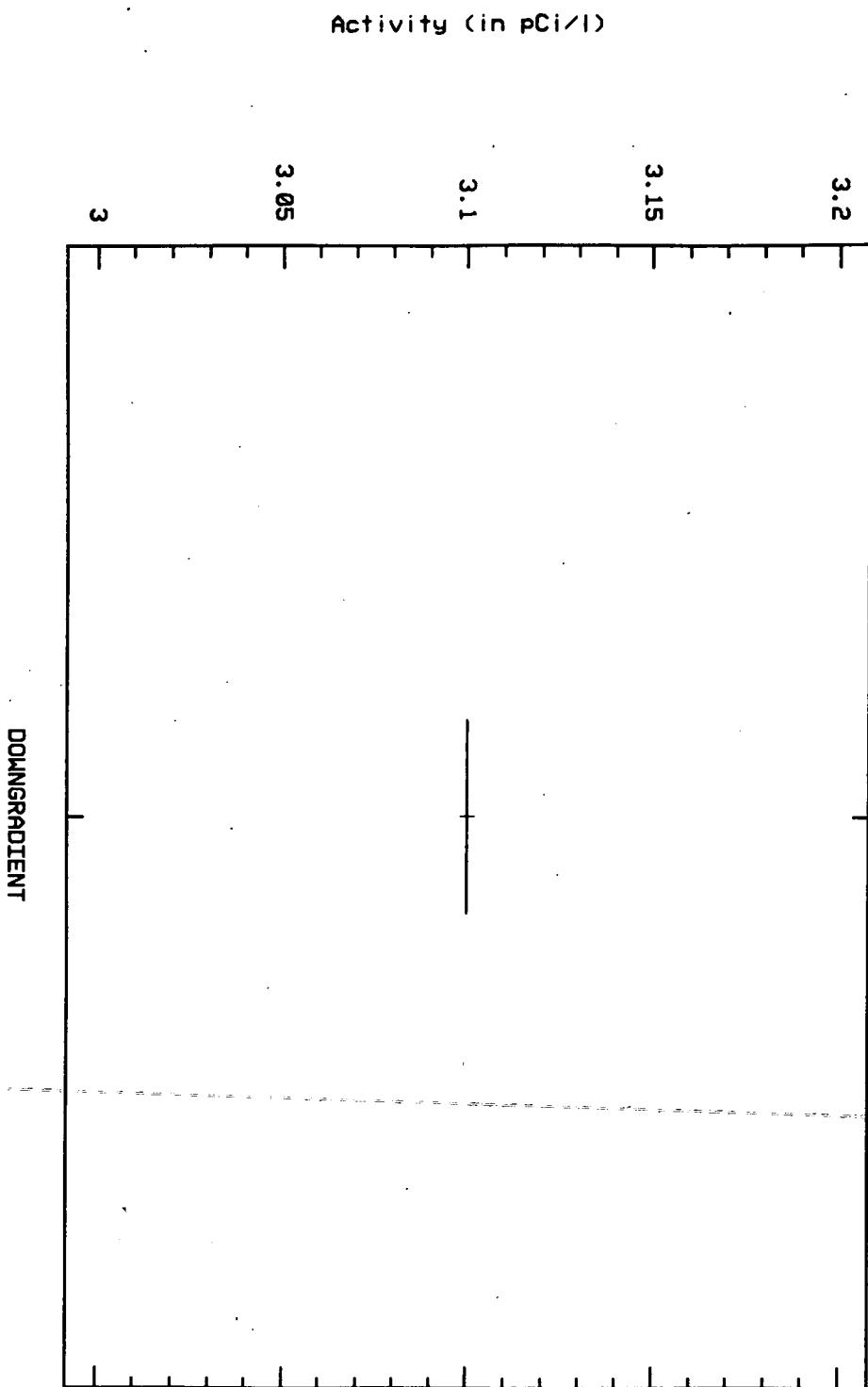
PU-239/240 (Dissolved): Groundwater
Background vs. OUT μ HgSU



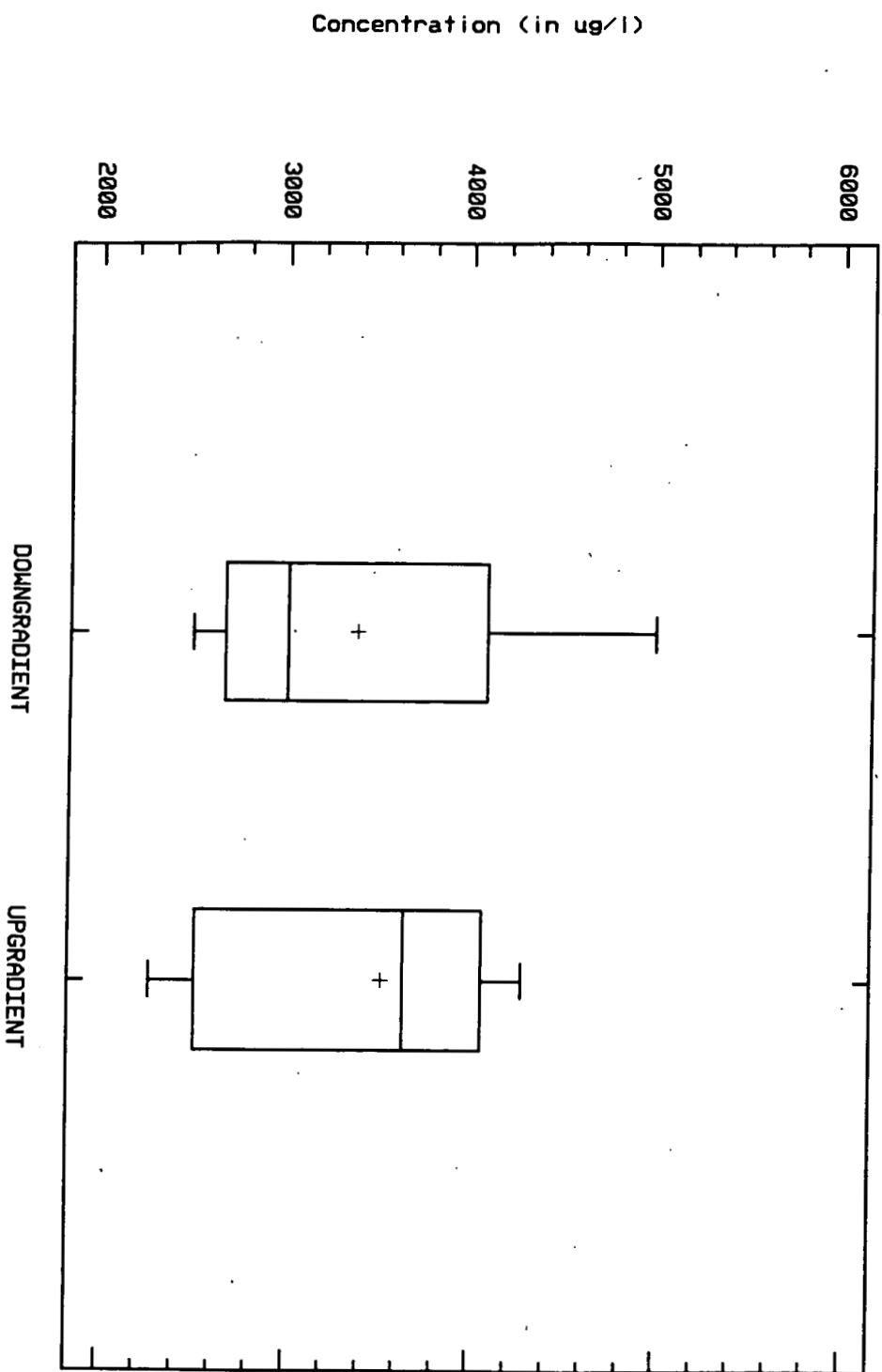
Radium-226 (Dissolved): Groundwater
Background vs. OUT LHSU



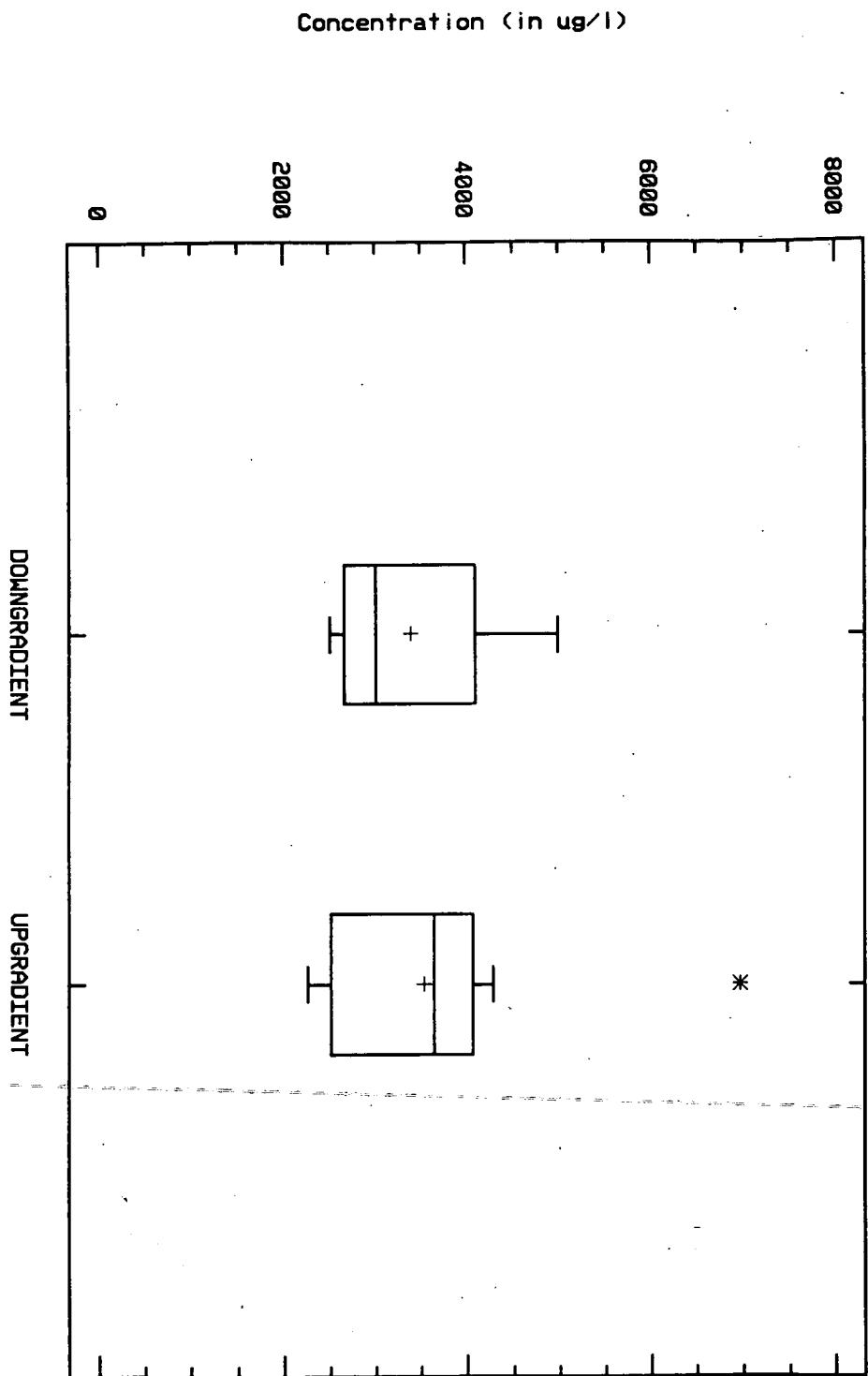
Radium-228 (Dissolved): Groundwater
Background vs. OUT LHSU



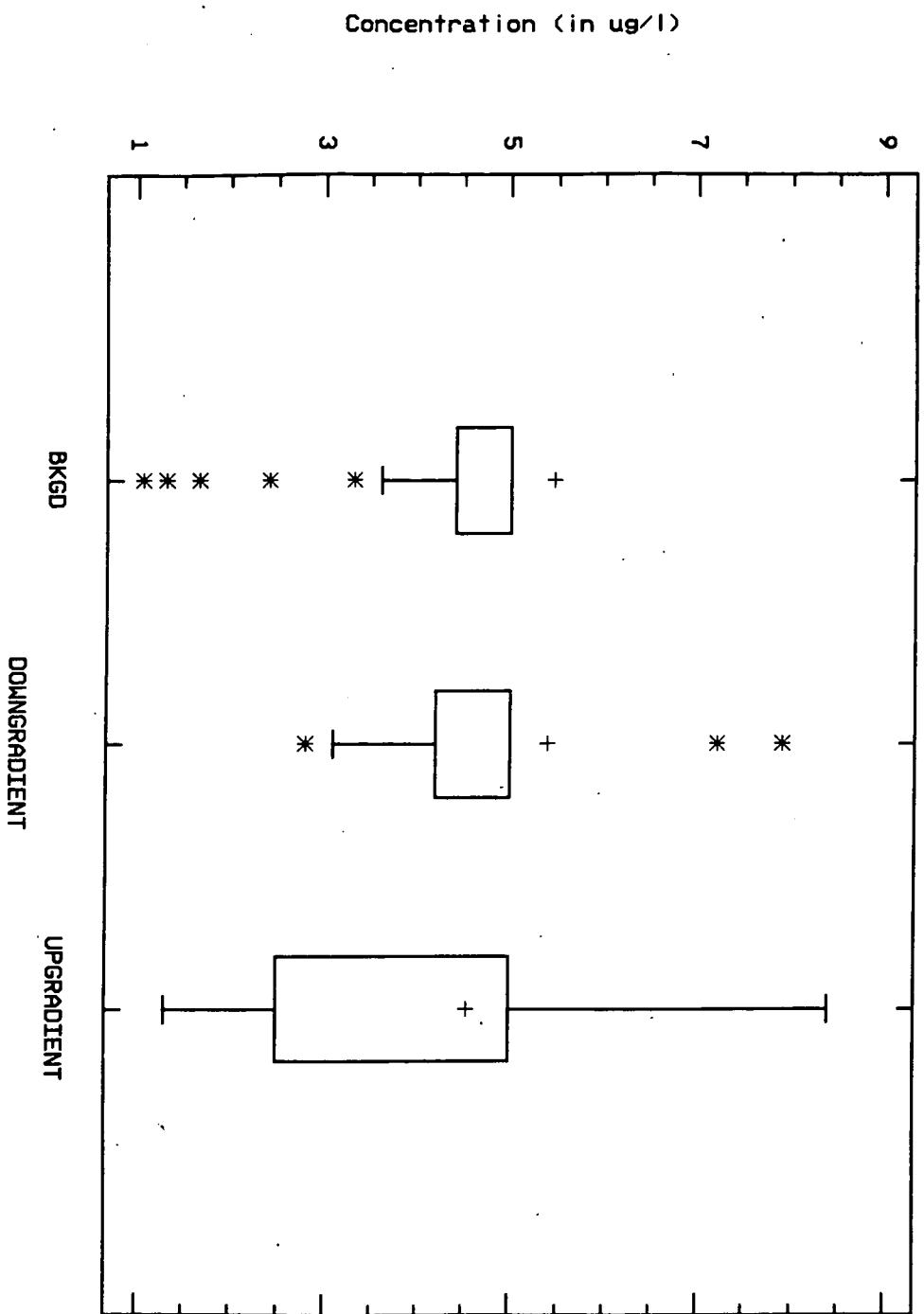
Silicon (Dissolved): Groundwater
Background vs. 017 LHSU



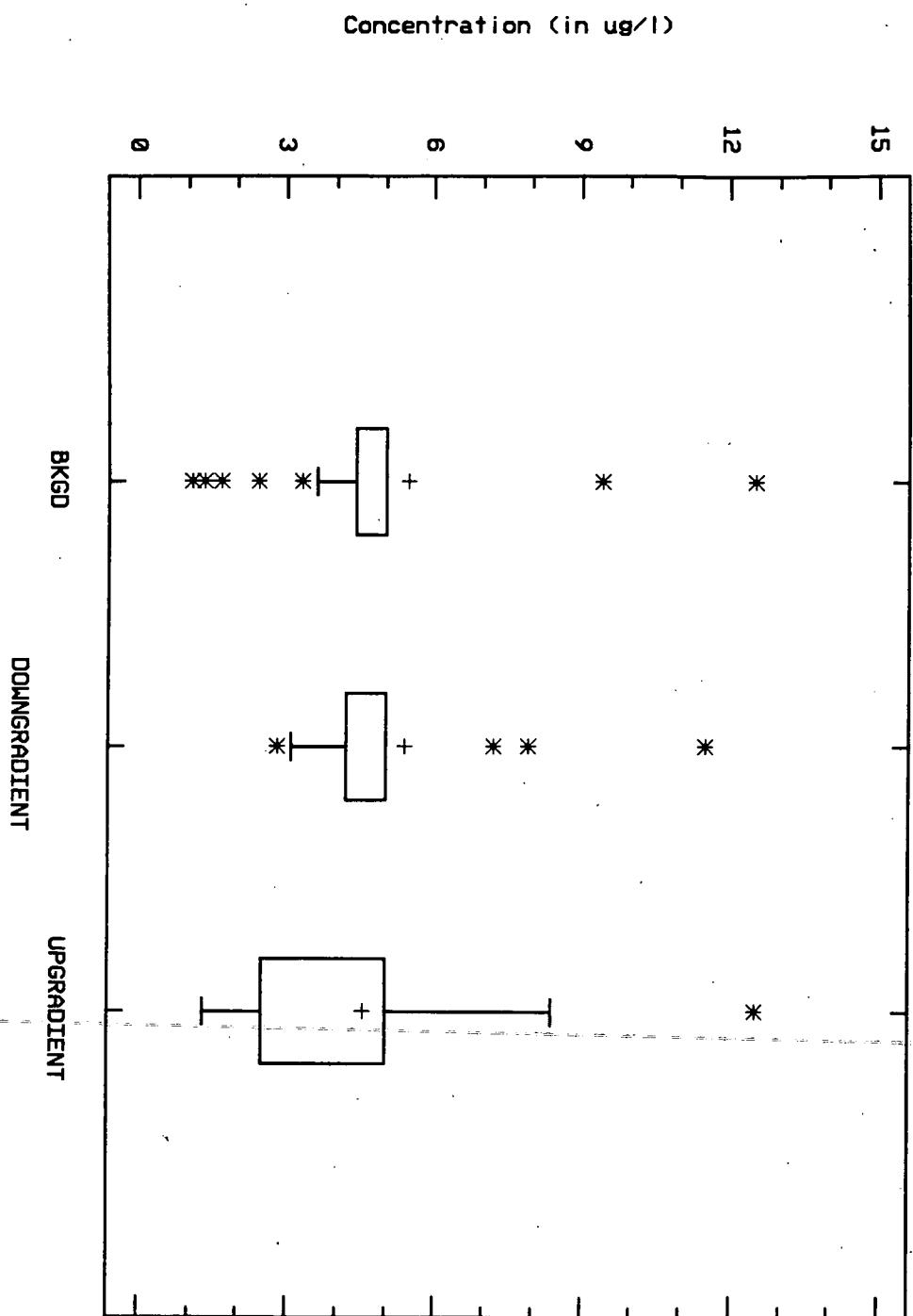
Silicon (Dissolved): Groundwater
Background vs. OUT $\frac{1}{\mu}$ Hsu



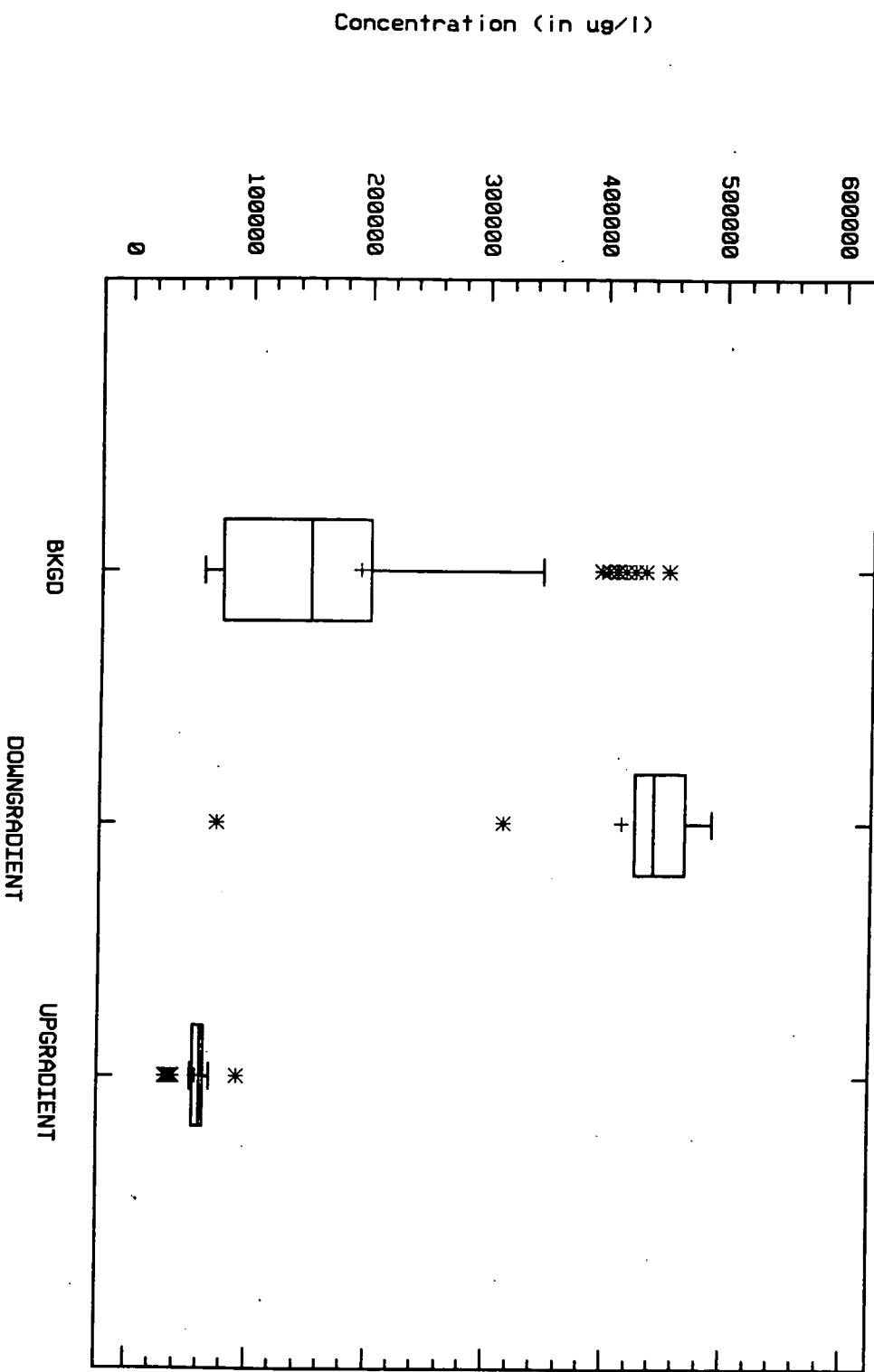
Silver (Dissolved): Groundwater
Background vs. OUT LHSU



Silver (Dissolved): Groundwater
Background vs. OUT µHSU

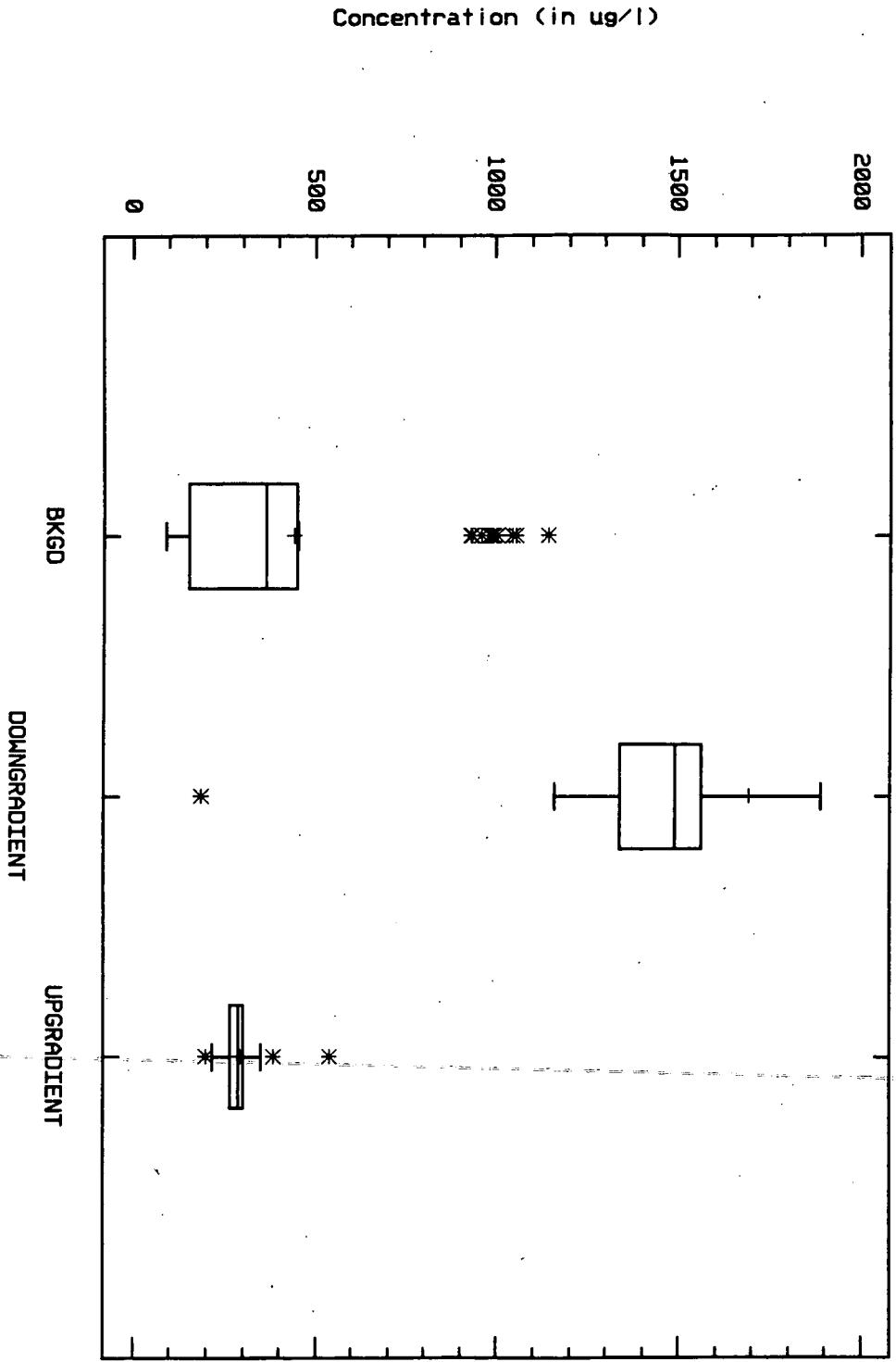


Sodium (Dissolved): Groundwater
Background vs. OUT LHSU



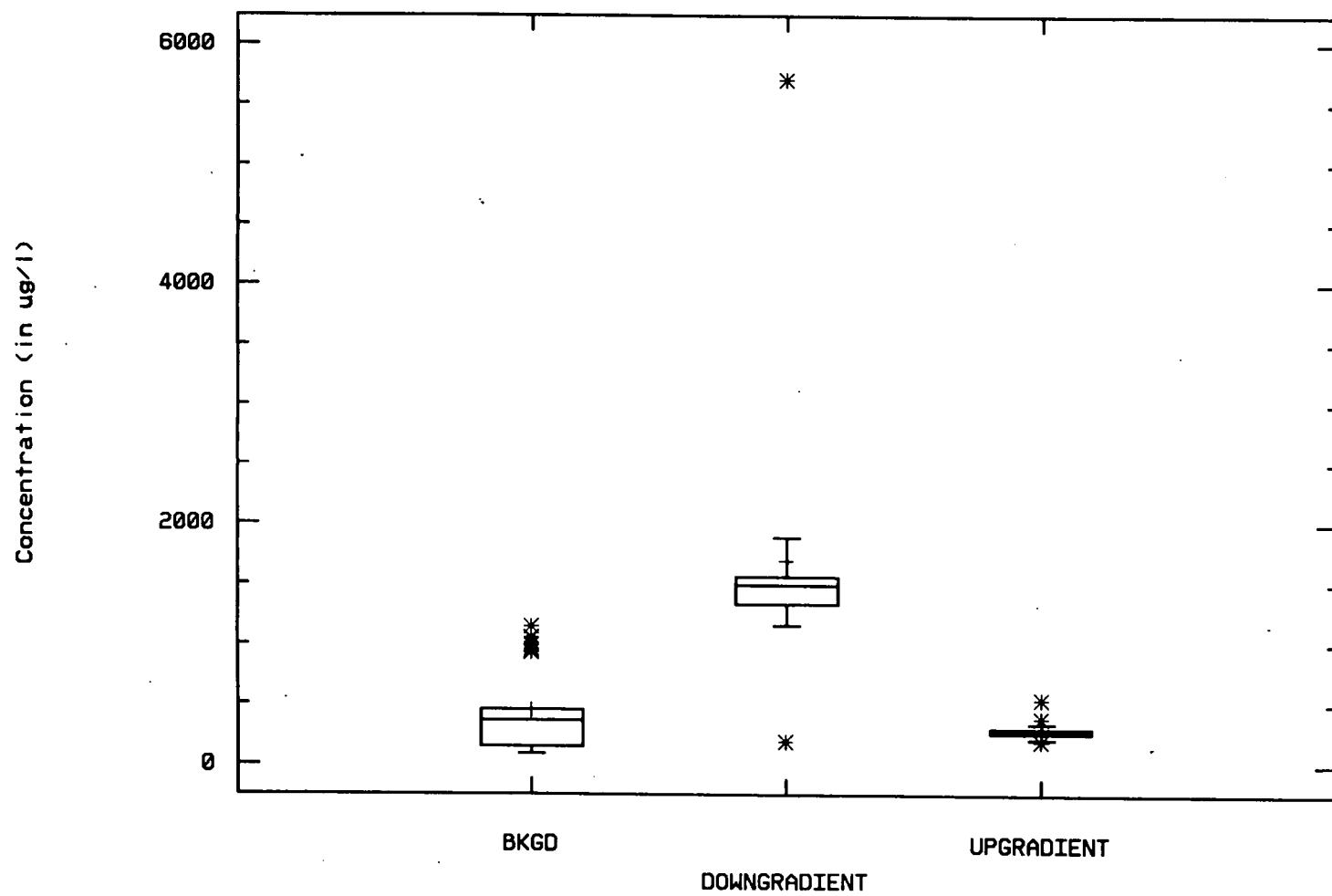
Strontium (Dissolved): Groundwater

Background vs. OUT LHSU

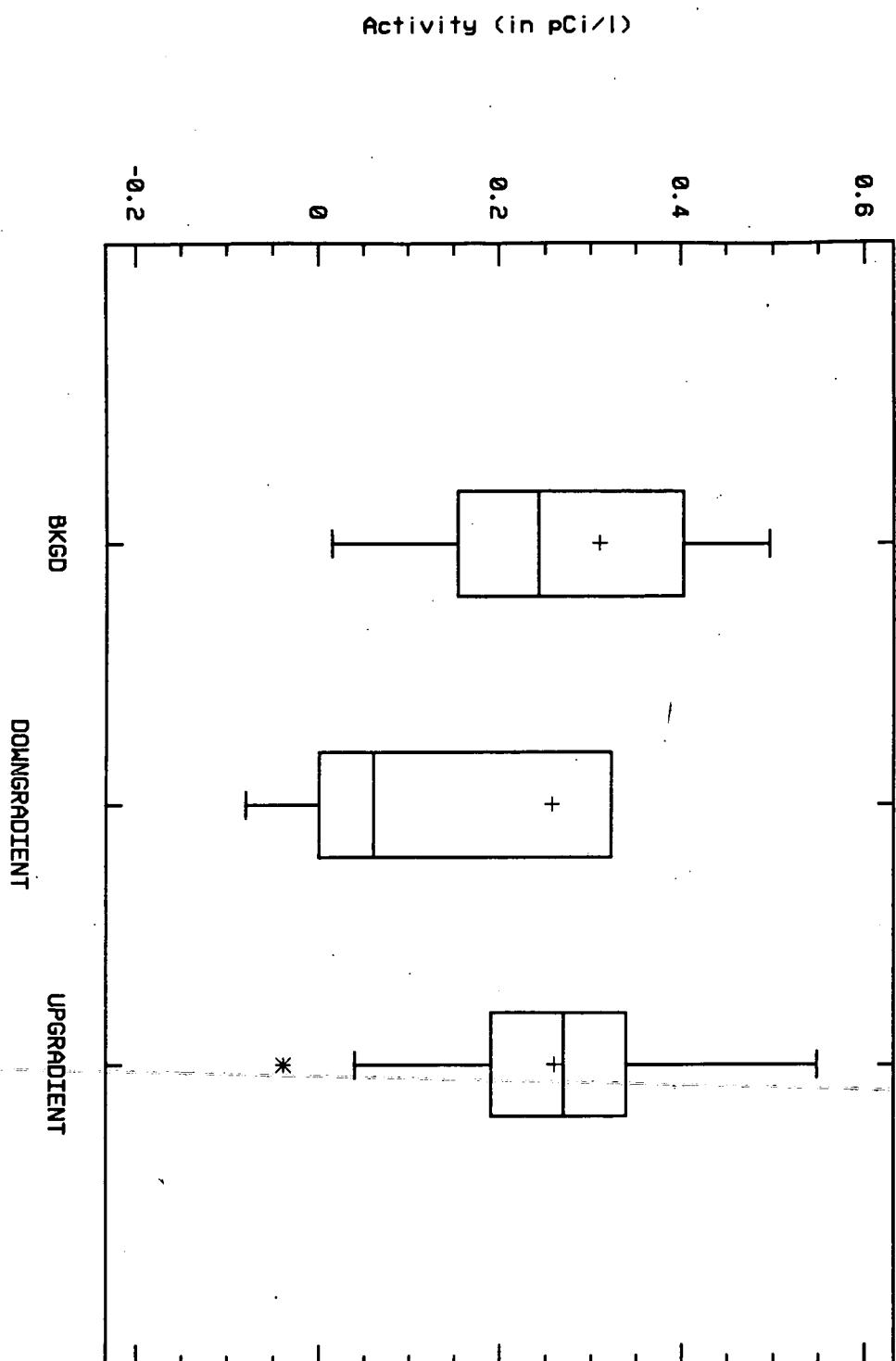


Strontium (Dissolved): Groundwater

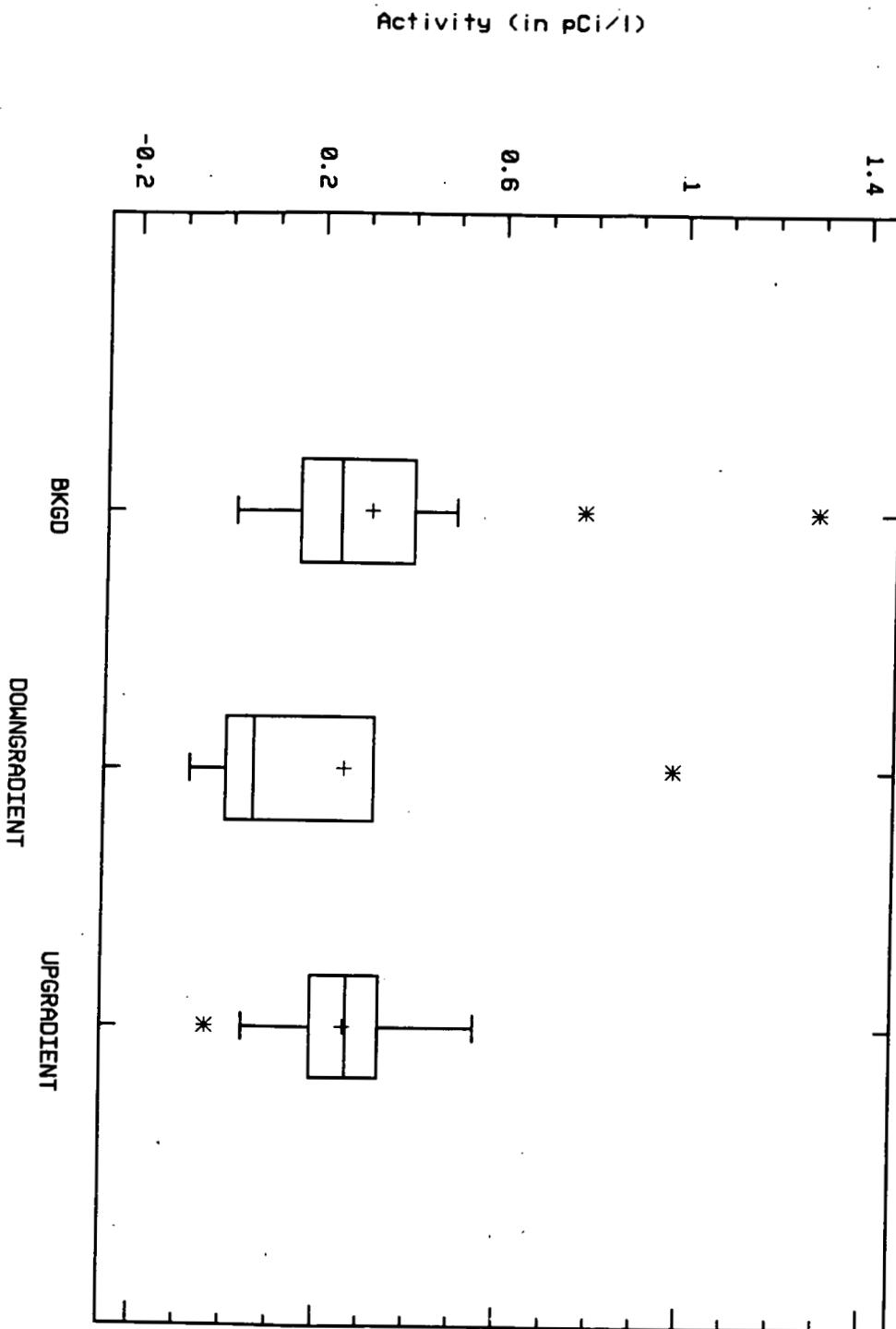
Background vs. OU7 JHSU



Strontium-89,90 (Dissolved): Groundwater
Background vs. OUT LHSU

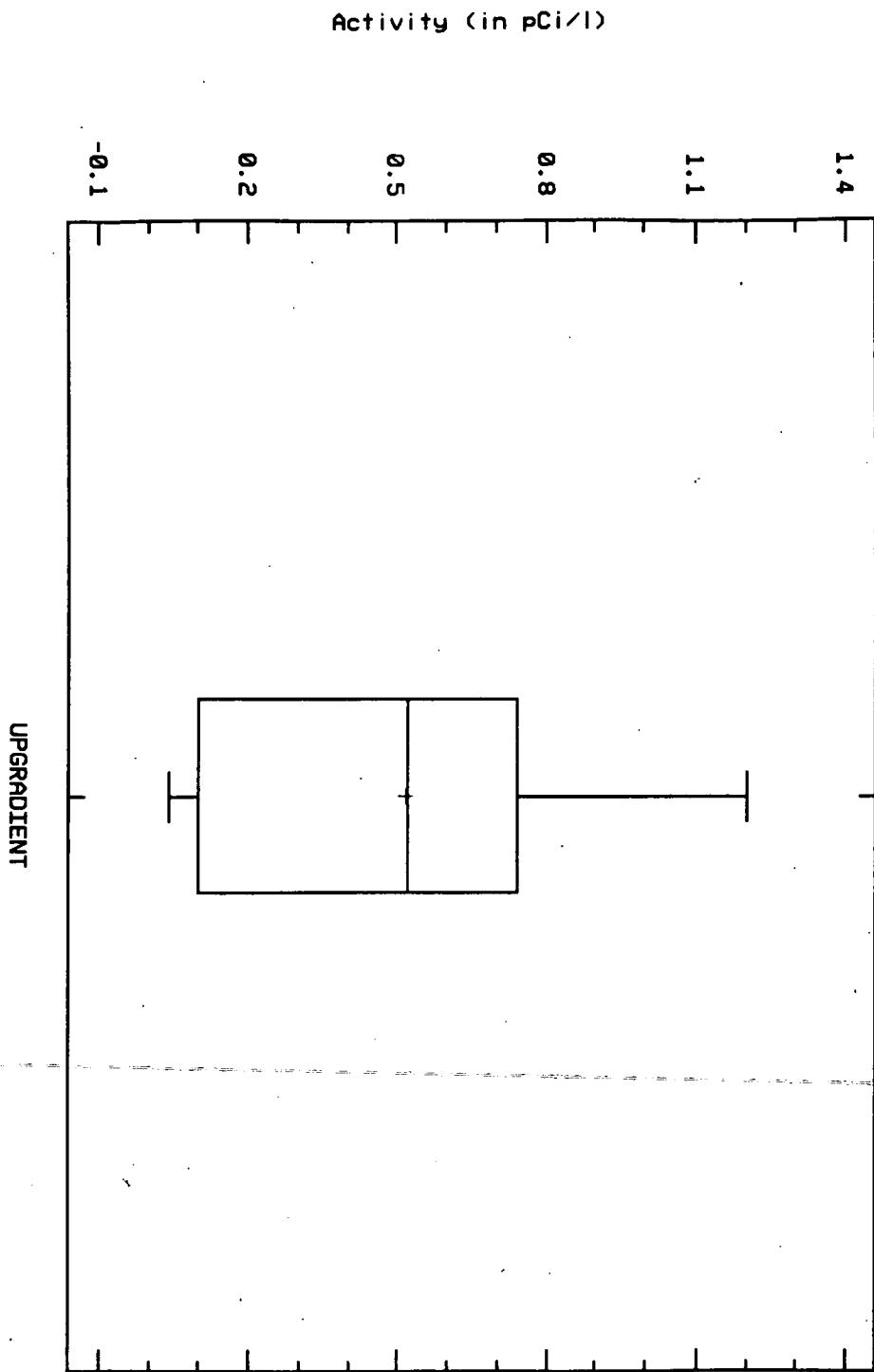


Strontium-89,90 (Dissolved): Groundwater
Background vs. OUT JHSU



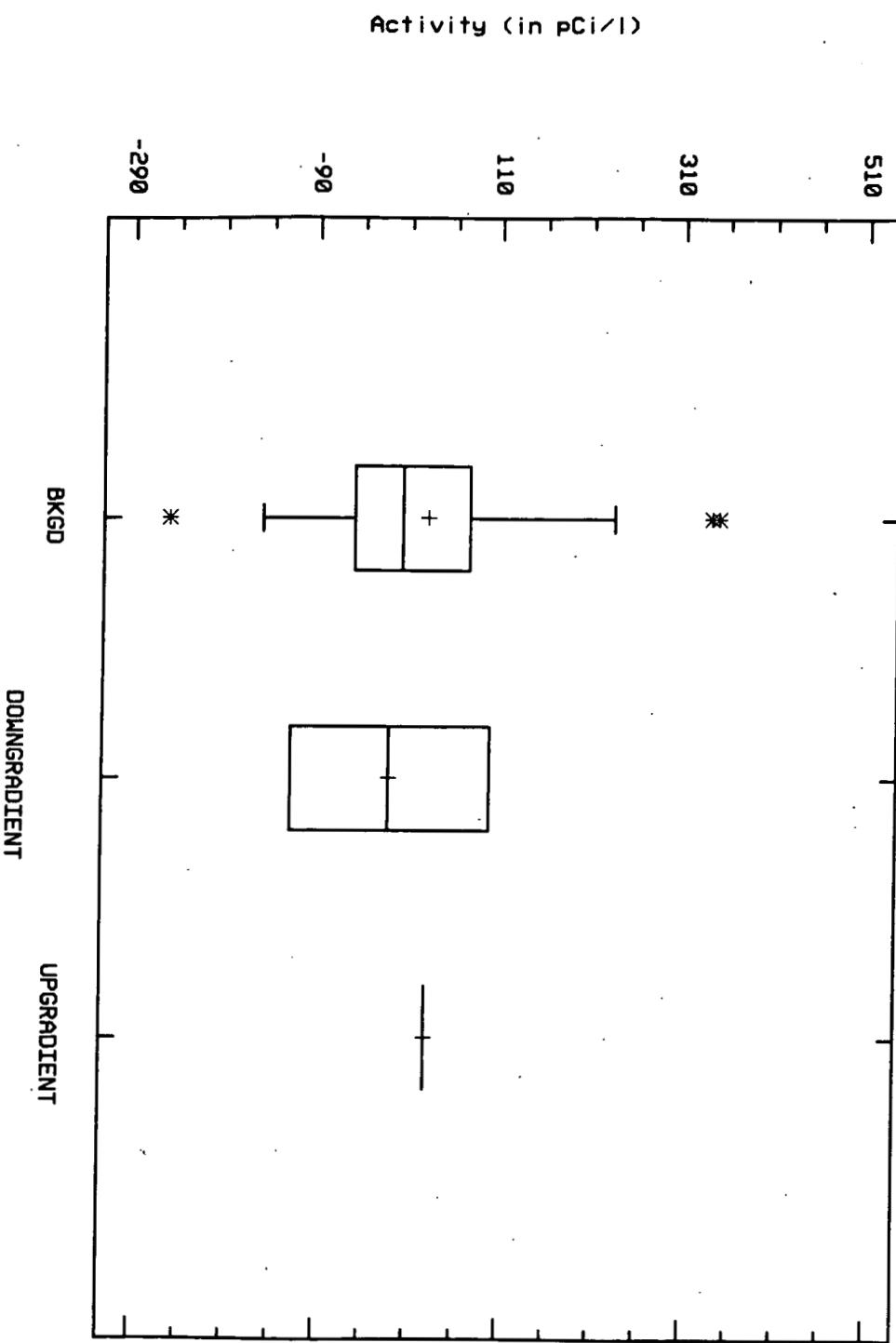
Total Radiocesium (Dissolv): Groundwater

Background vs. 0U7 LHSU



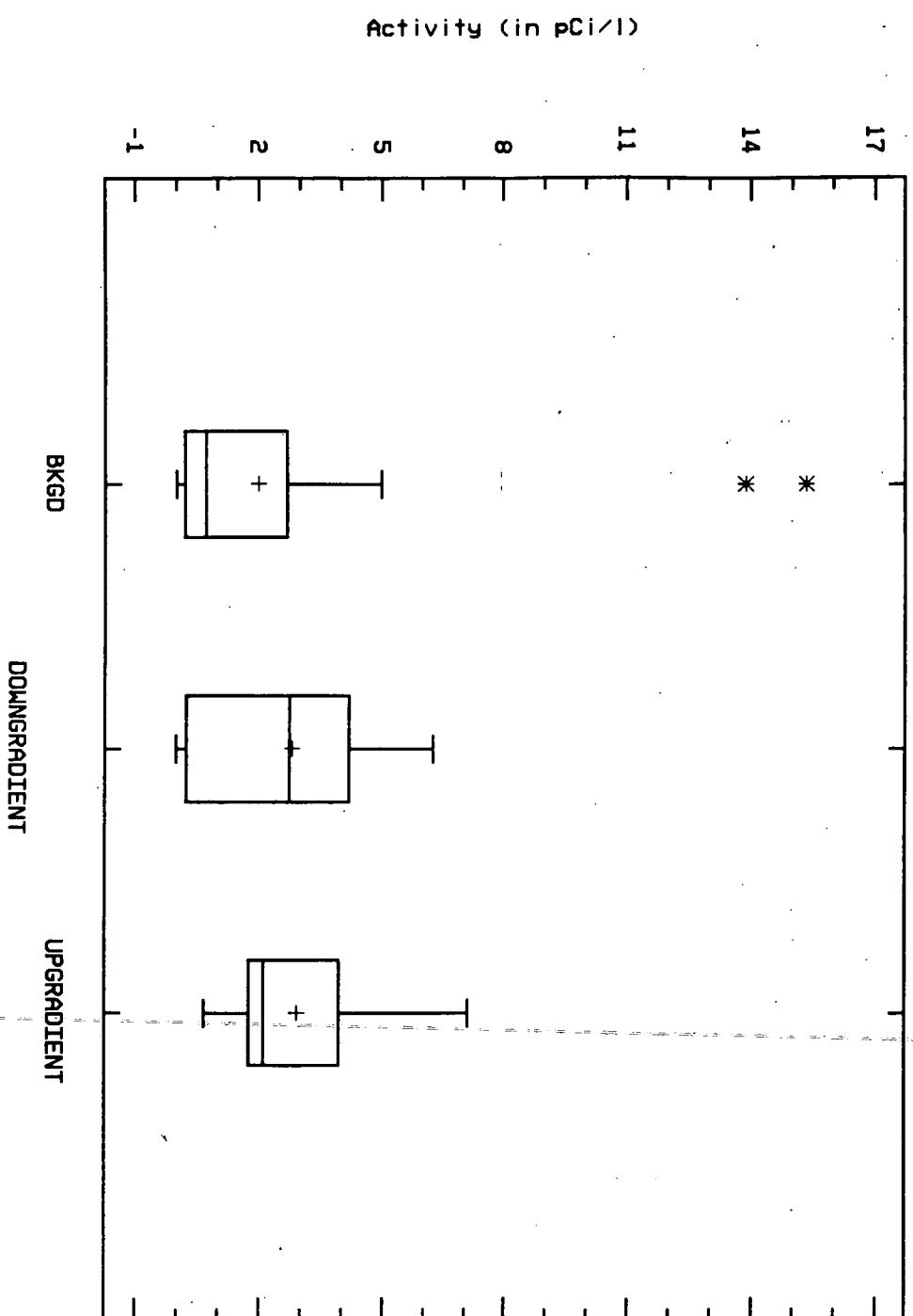
Tritium (Dissolved): Groundwater

Background vs. 047 LHSU

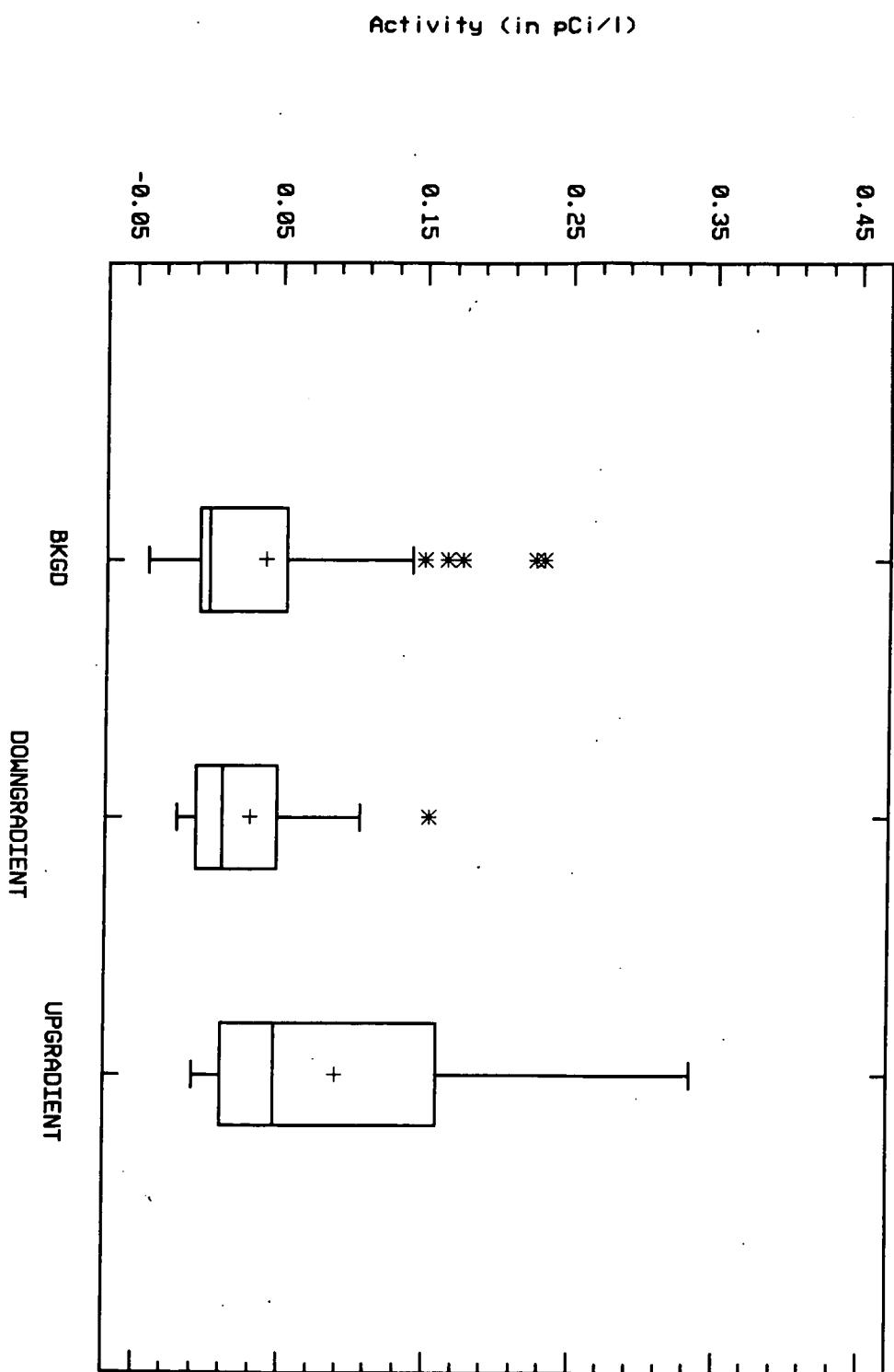


Uranium-233,234 (Dissolved): Groundwater

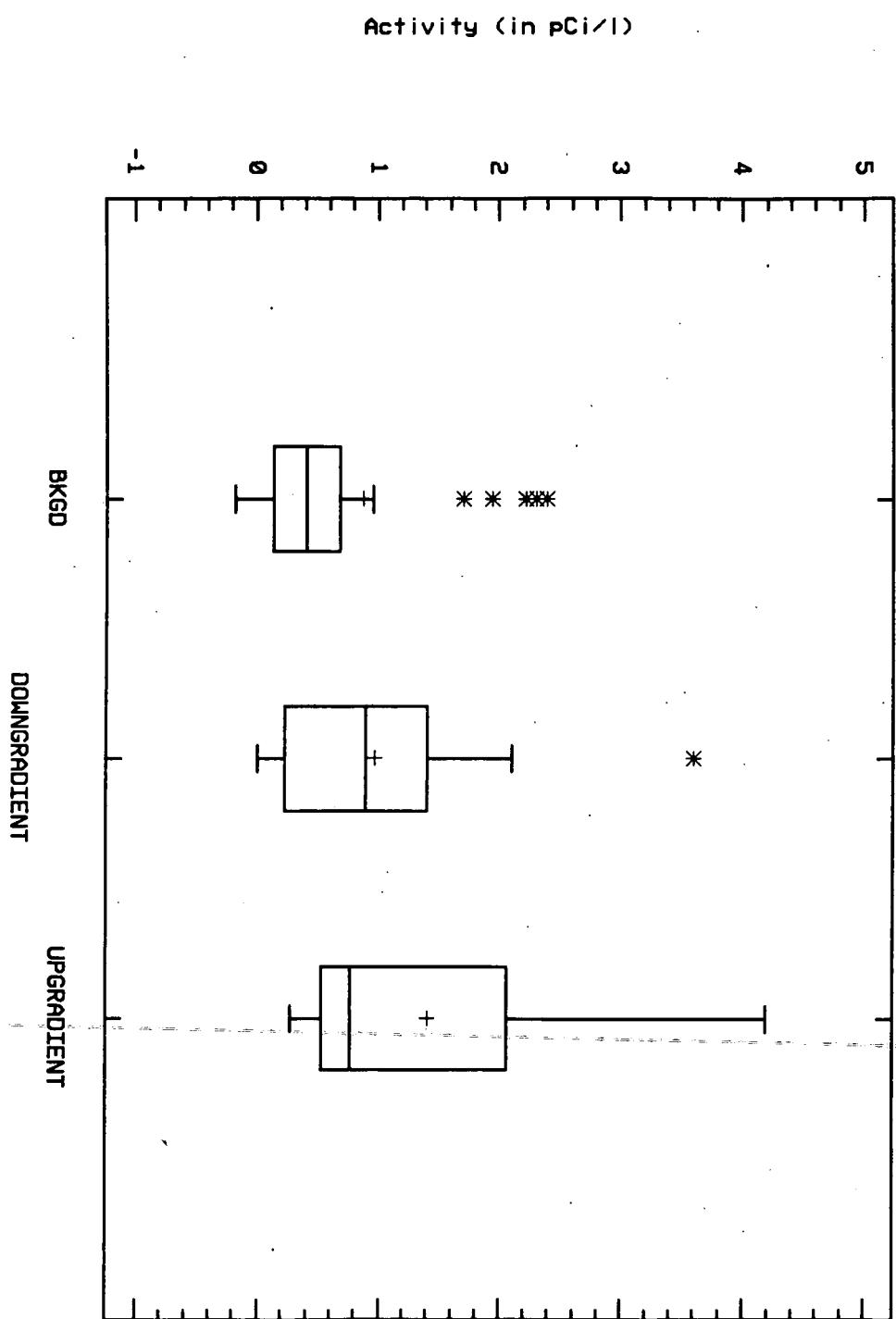
Background vs. OUT LHSU



Uranium-235 (Dissolved): Groundwater
Background vs. OUT LHSU

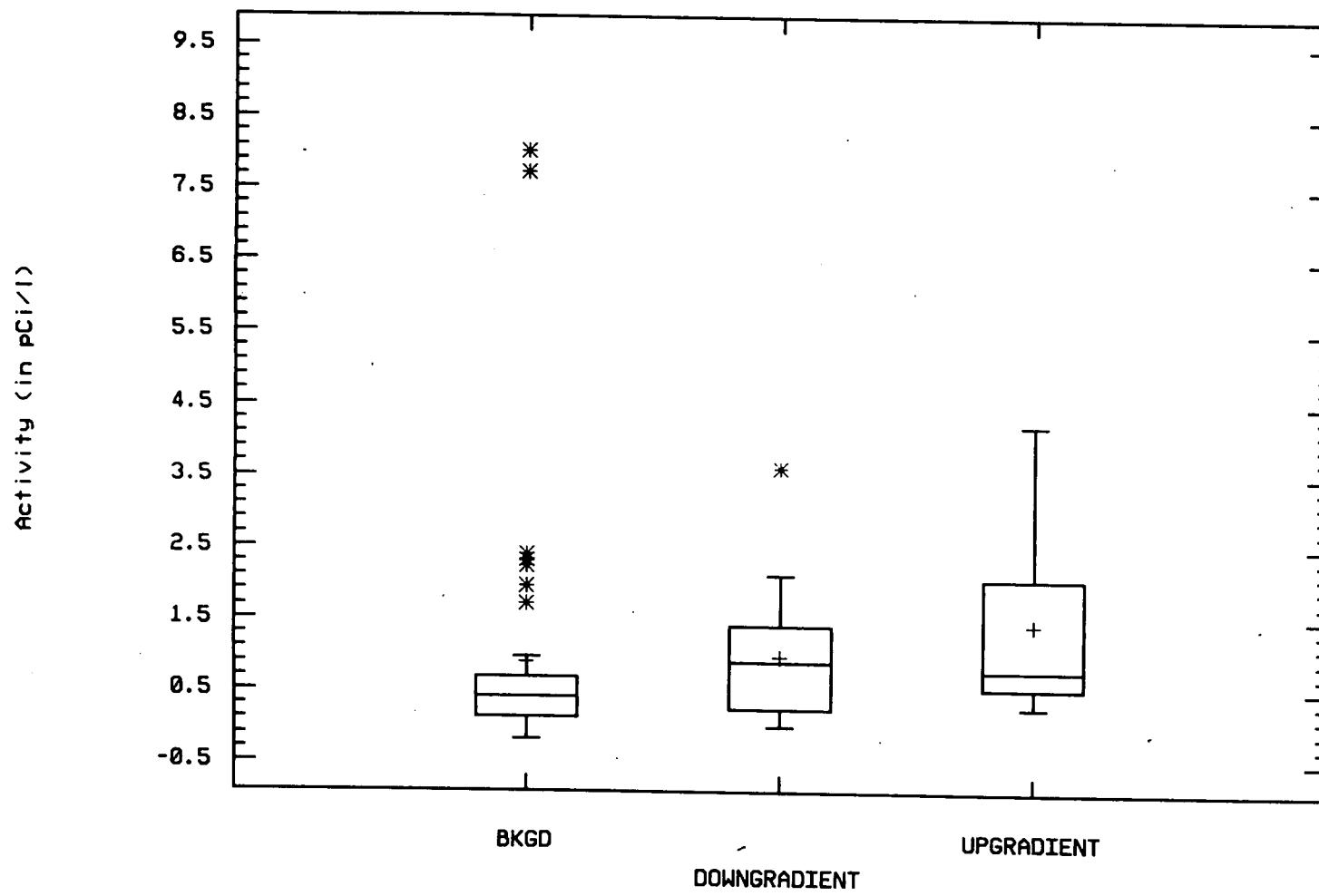


Uranium-238 (Dissolved): Groundwater
Background vs. OUT LHSU

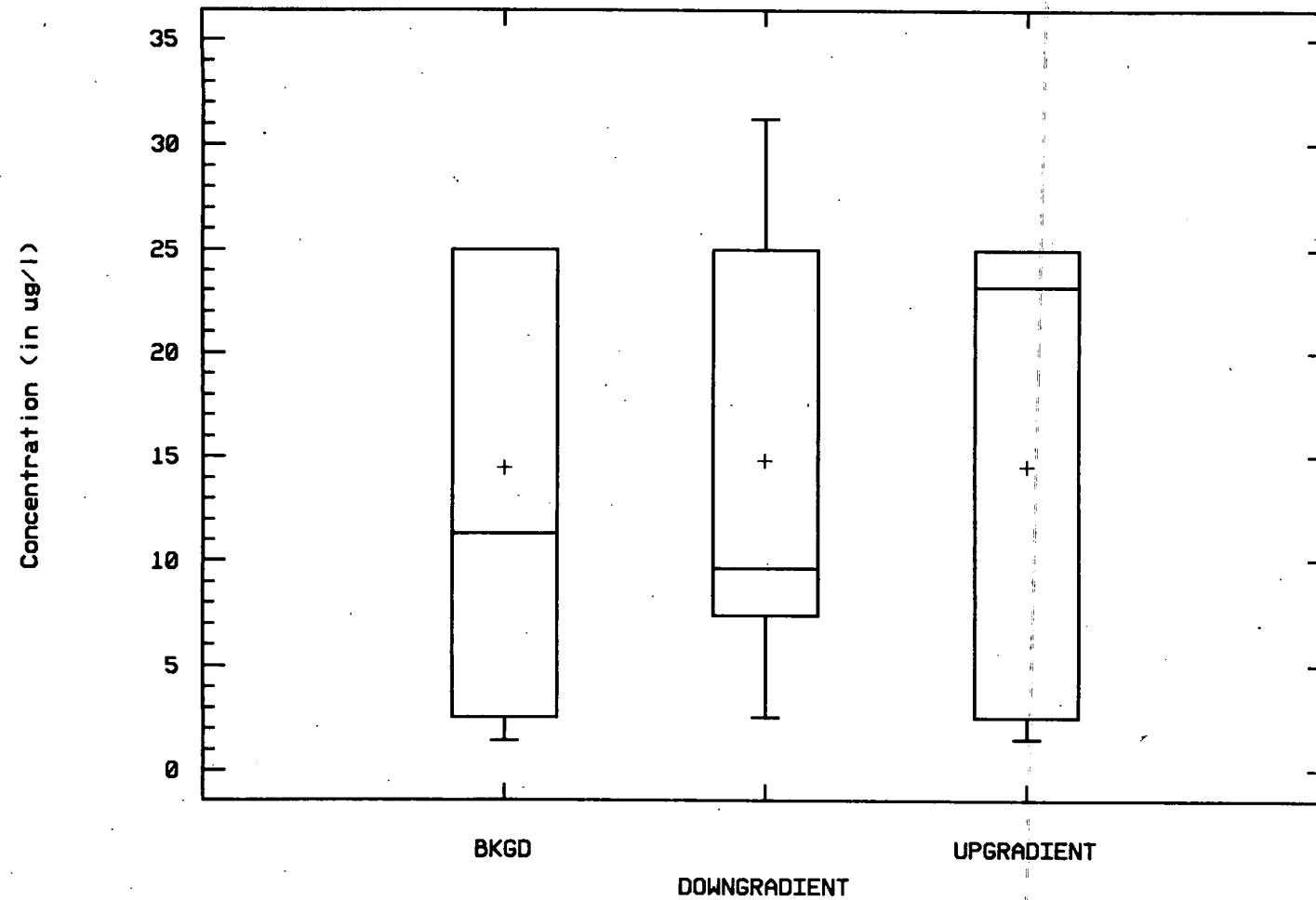


Uranium-238 (Dissolved): Groundwater

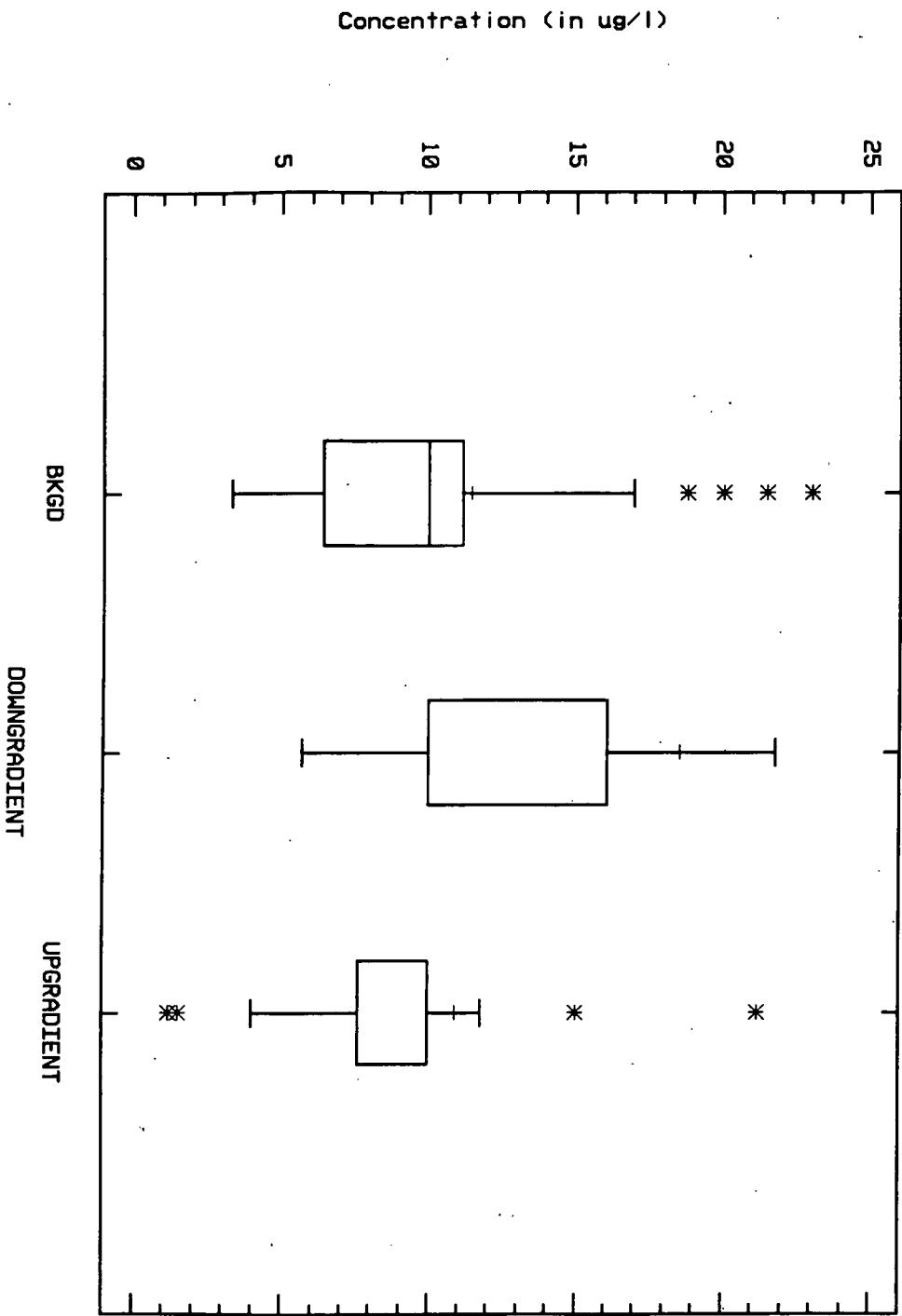
Background vs. OU7 MHSU



Vanadium (Dissolved): Groundwater
Background vs. OU7 LHSU

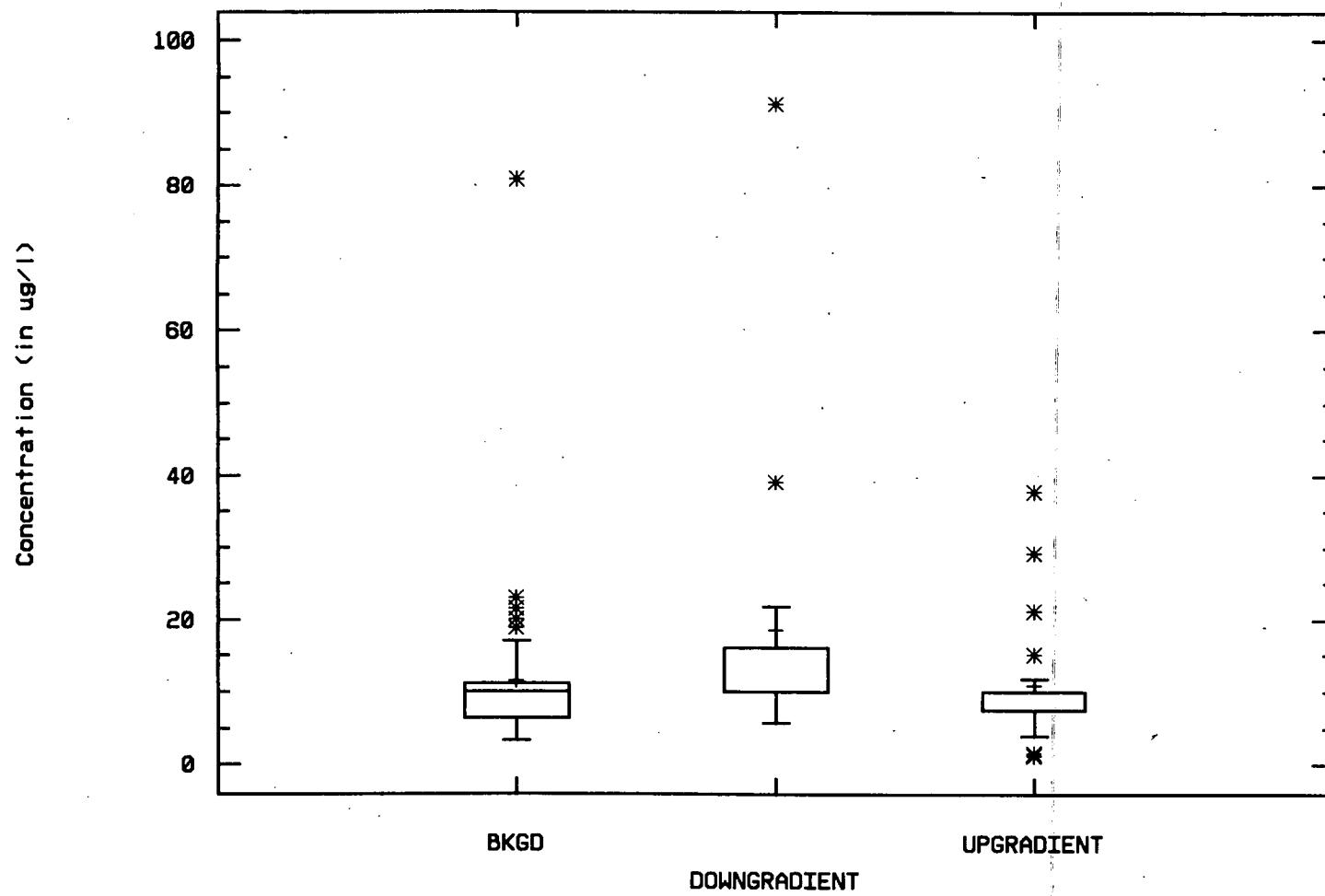


Zinc (Dissolved): Groundwater
Background vs. OUT LHSU



Zinc (Dissolved): Groundwater

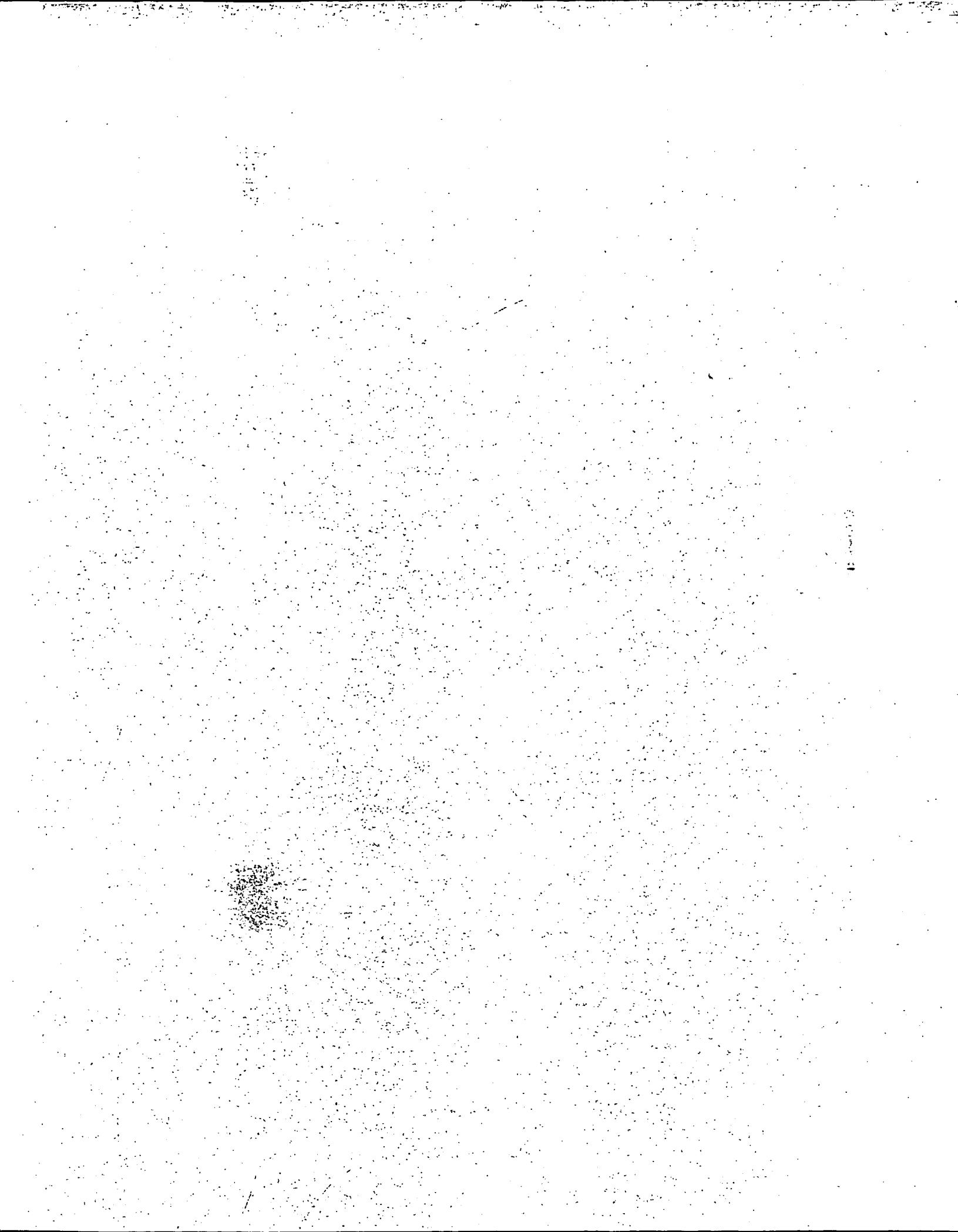
Background vs. OU7 JHSU



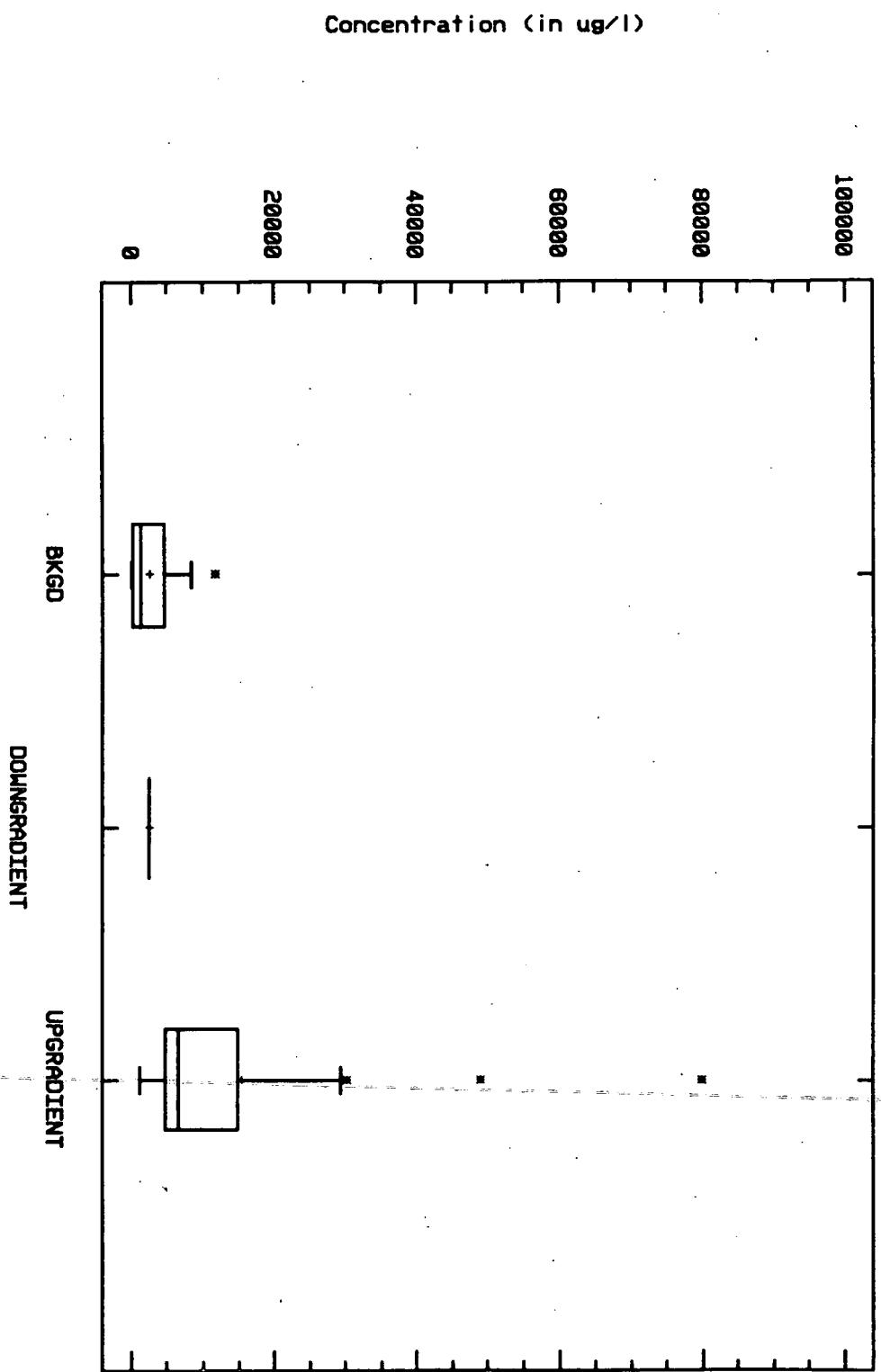
Groundwater

(Total)

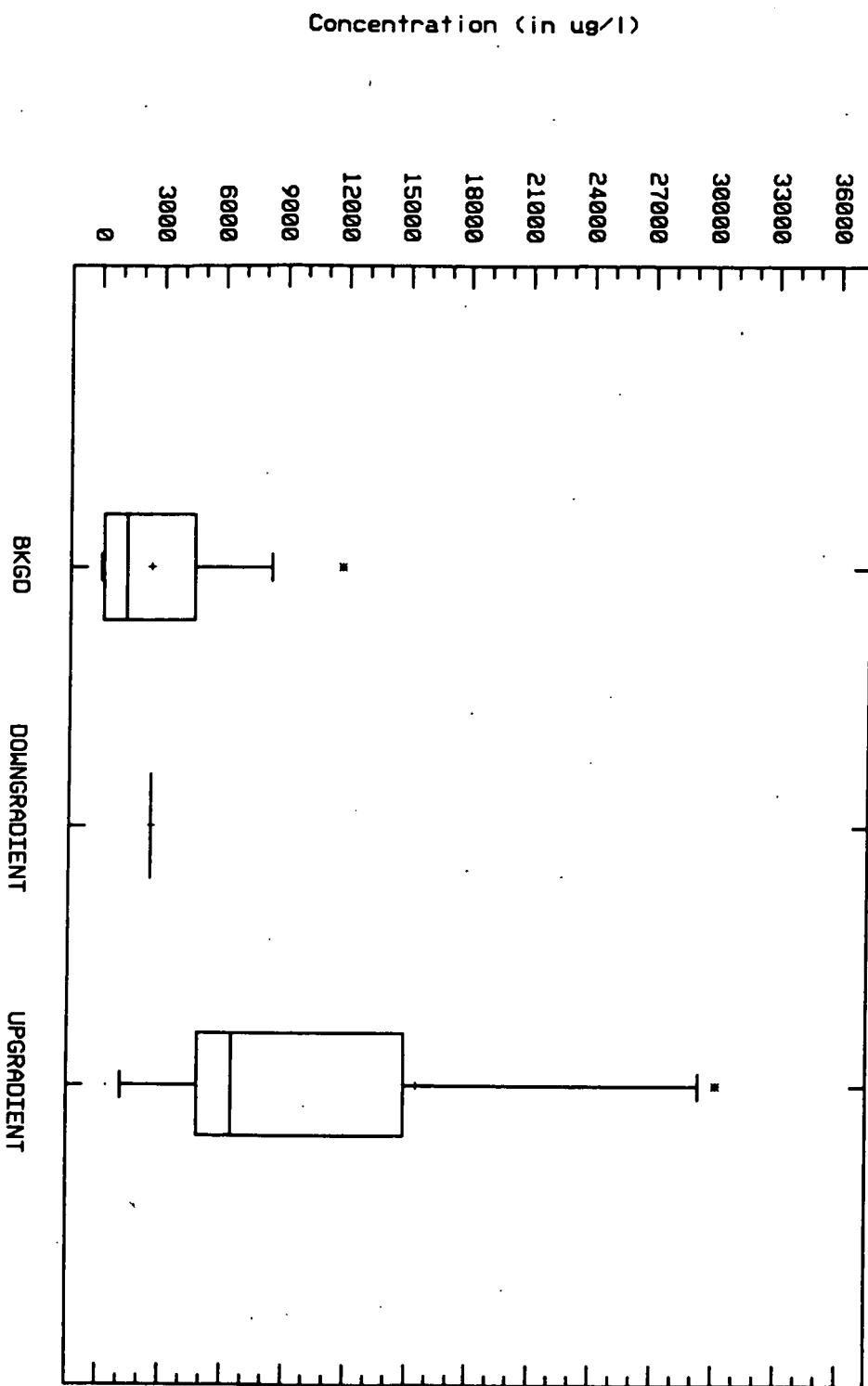
Background vs. OU 7 LHSU



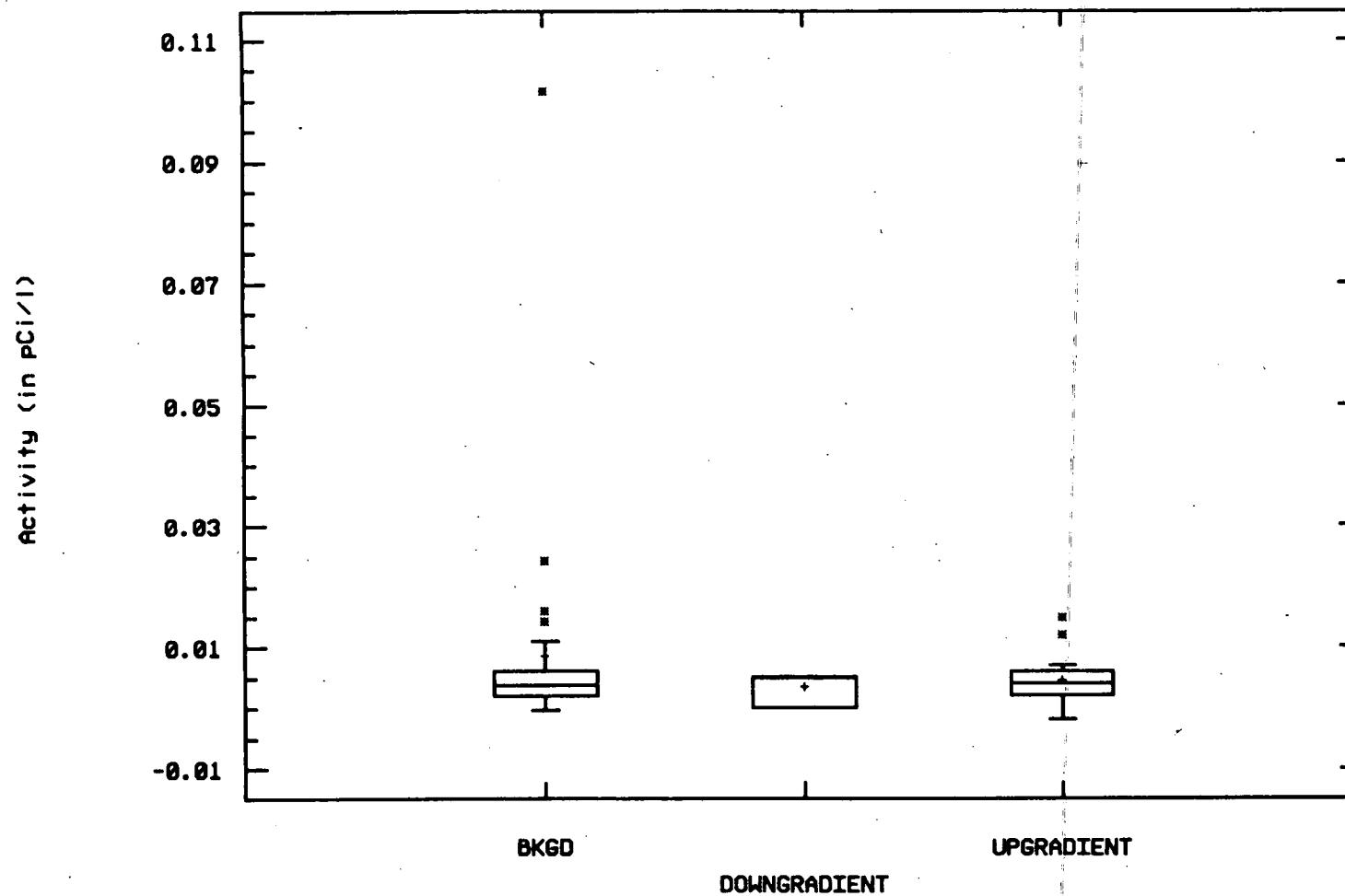
Aluminum (Total): Groundwater
Background vs. 017 LHSU



Aluminum (Total): Groundwater
Background vs. OUT LHSU

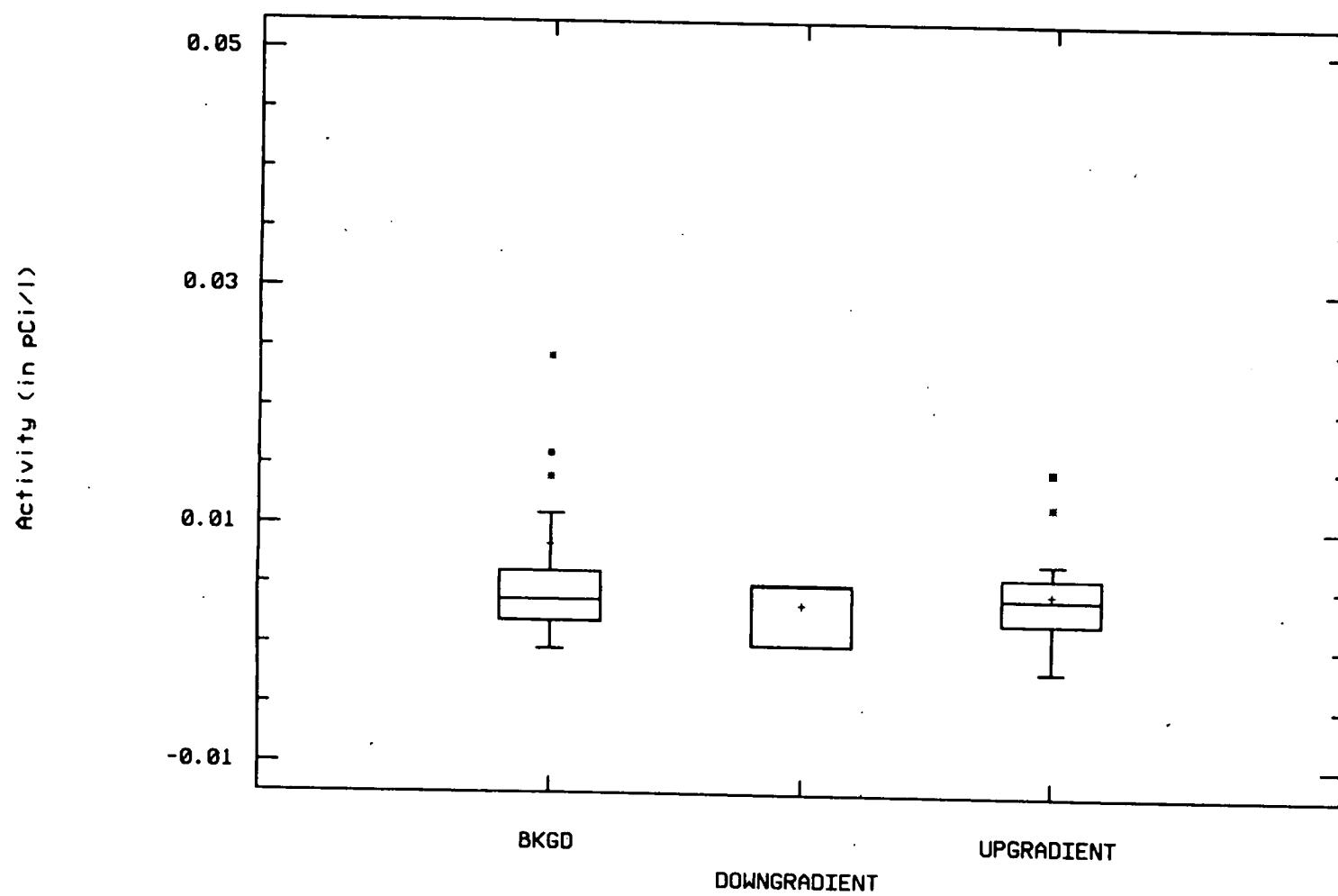


Americium-241 (Total): Groundwater
Background vs. OU7 LHSU

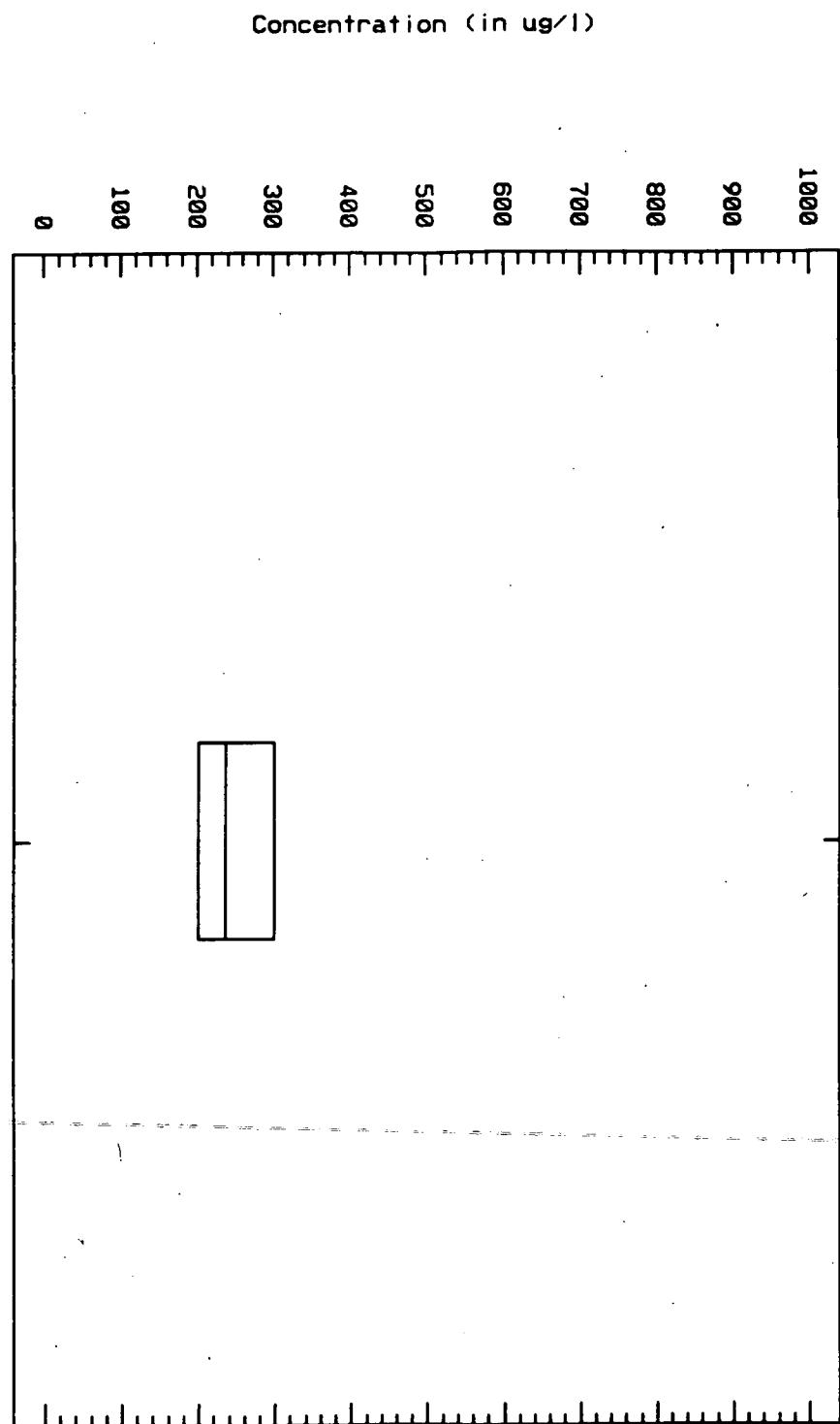


Americium-241 (Total): Groundwater

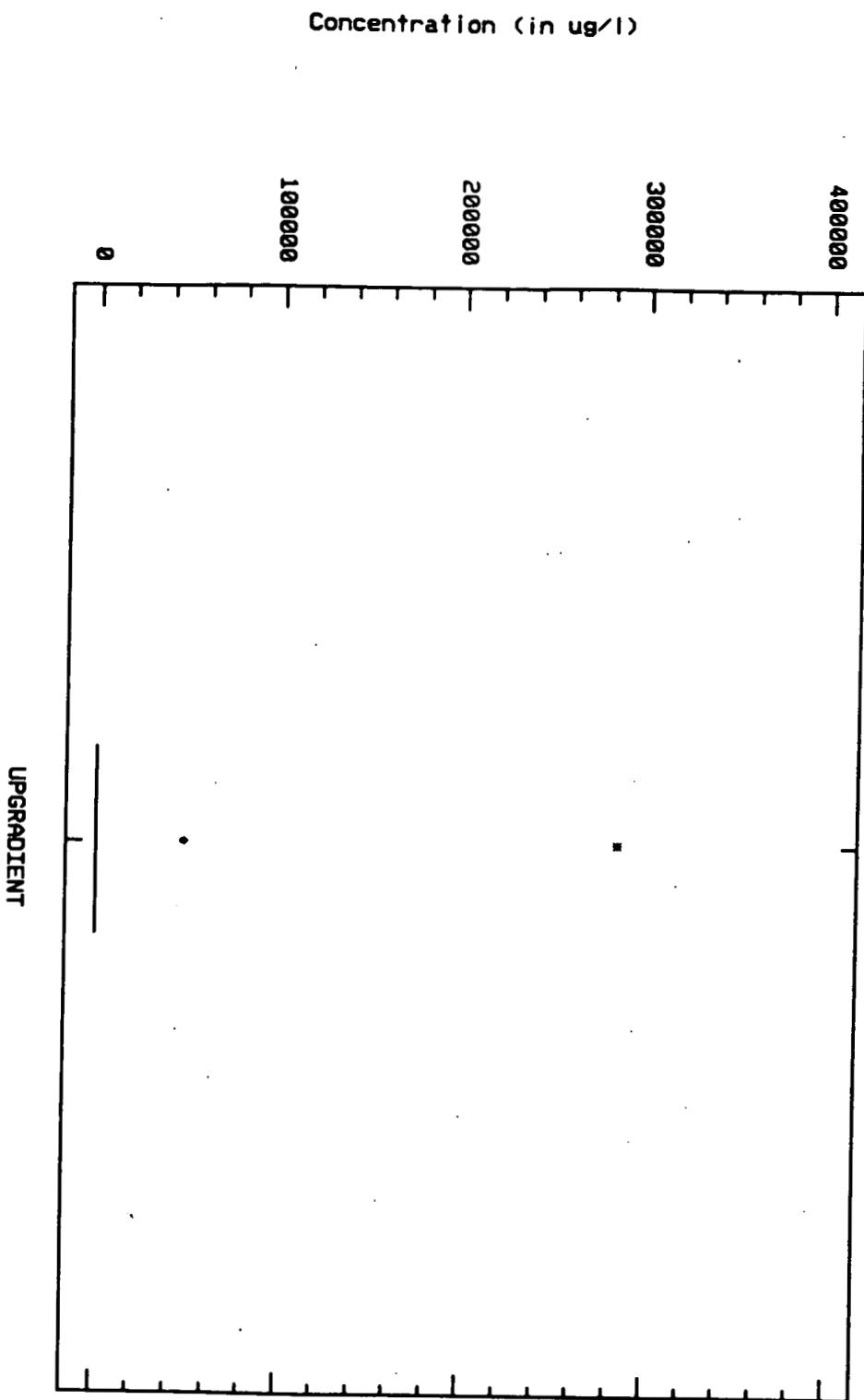
Background vs. OU7 LHSU



Ammonia (Total): Groundwater
Background vs. 017 LHSU

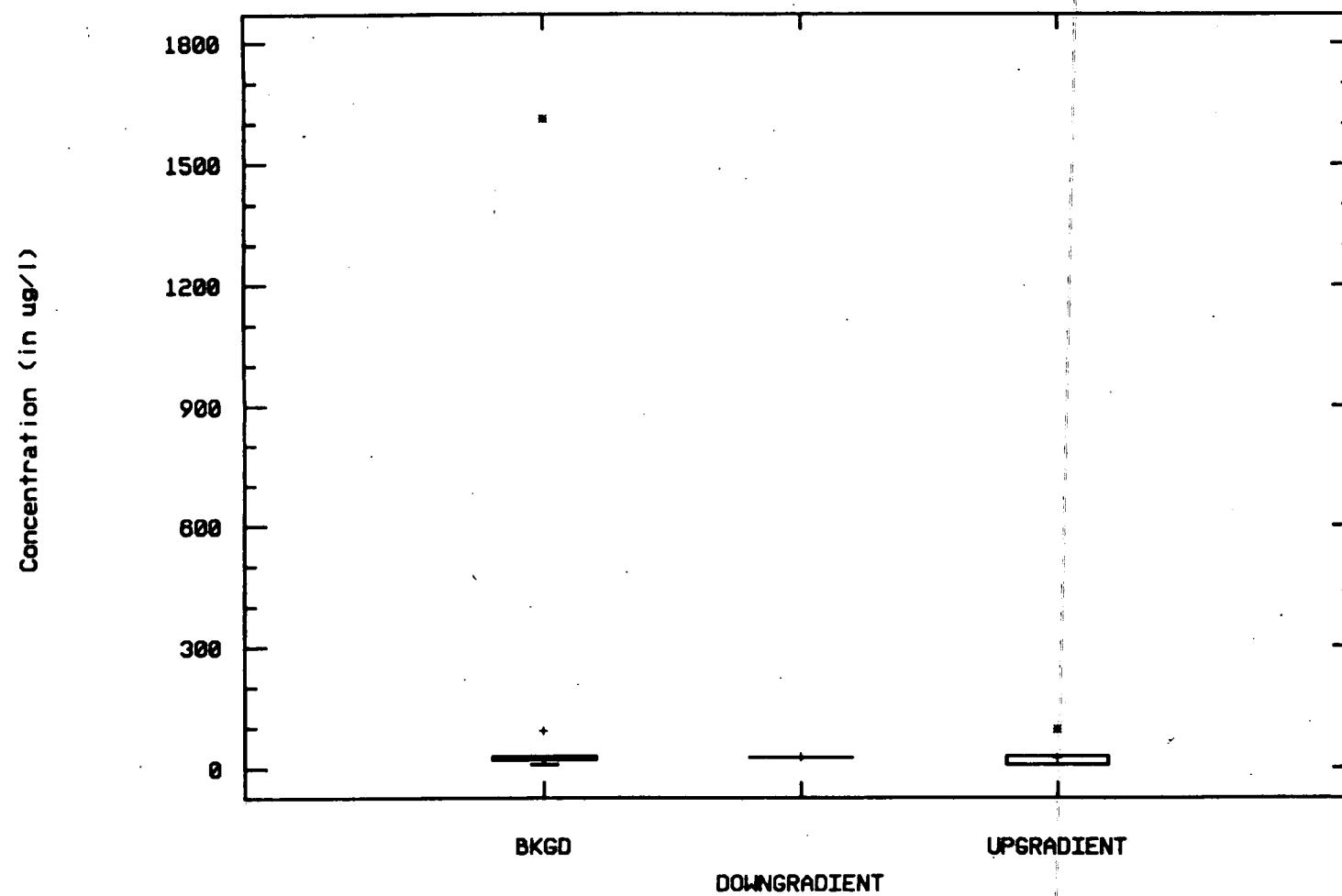


Ammonia (Total): Groundwater
Background vs. 0U7 LHSU

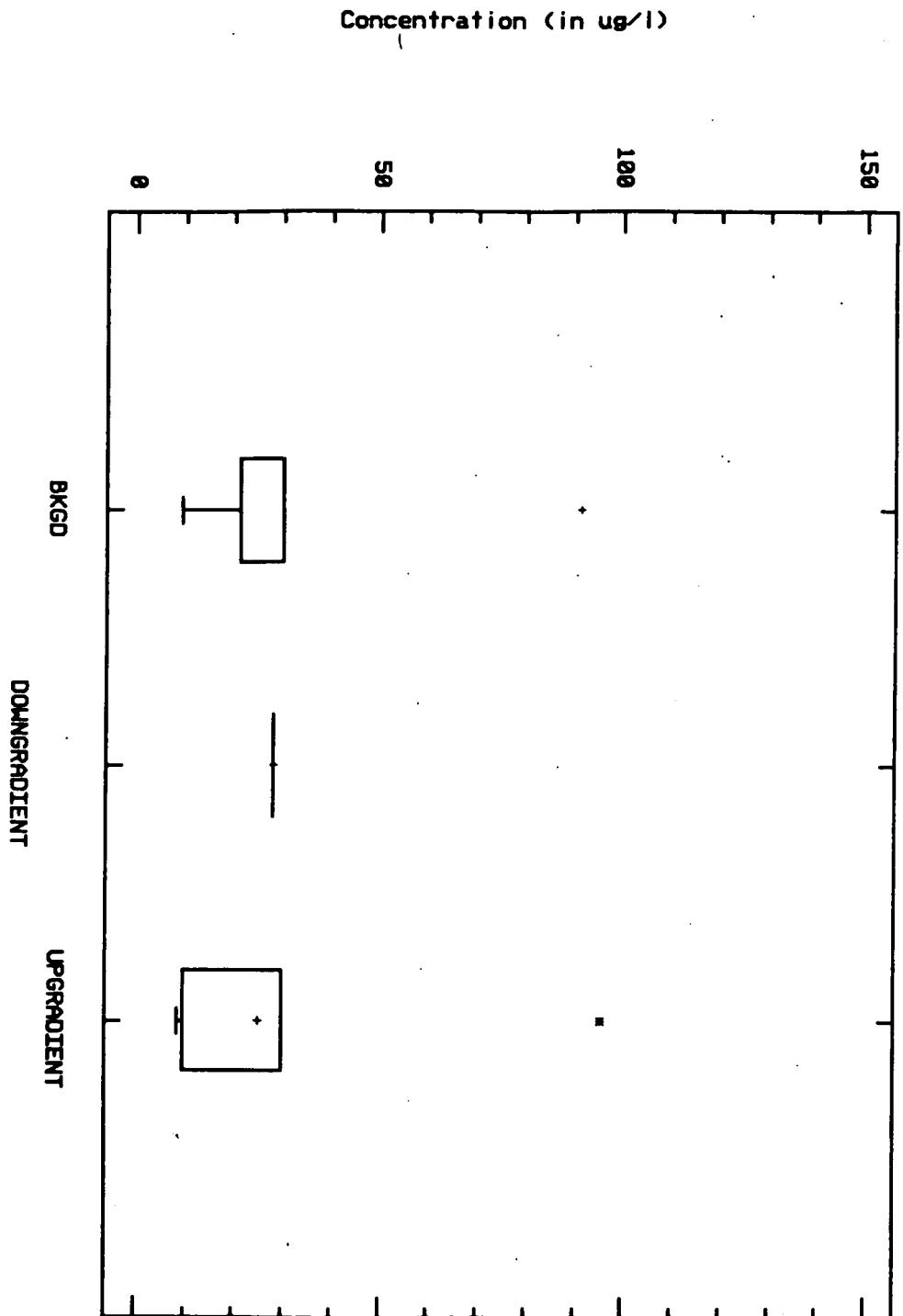


Antimony (Total): Groundwater

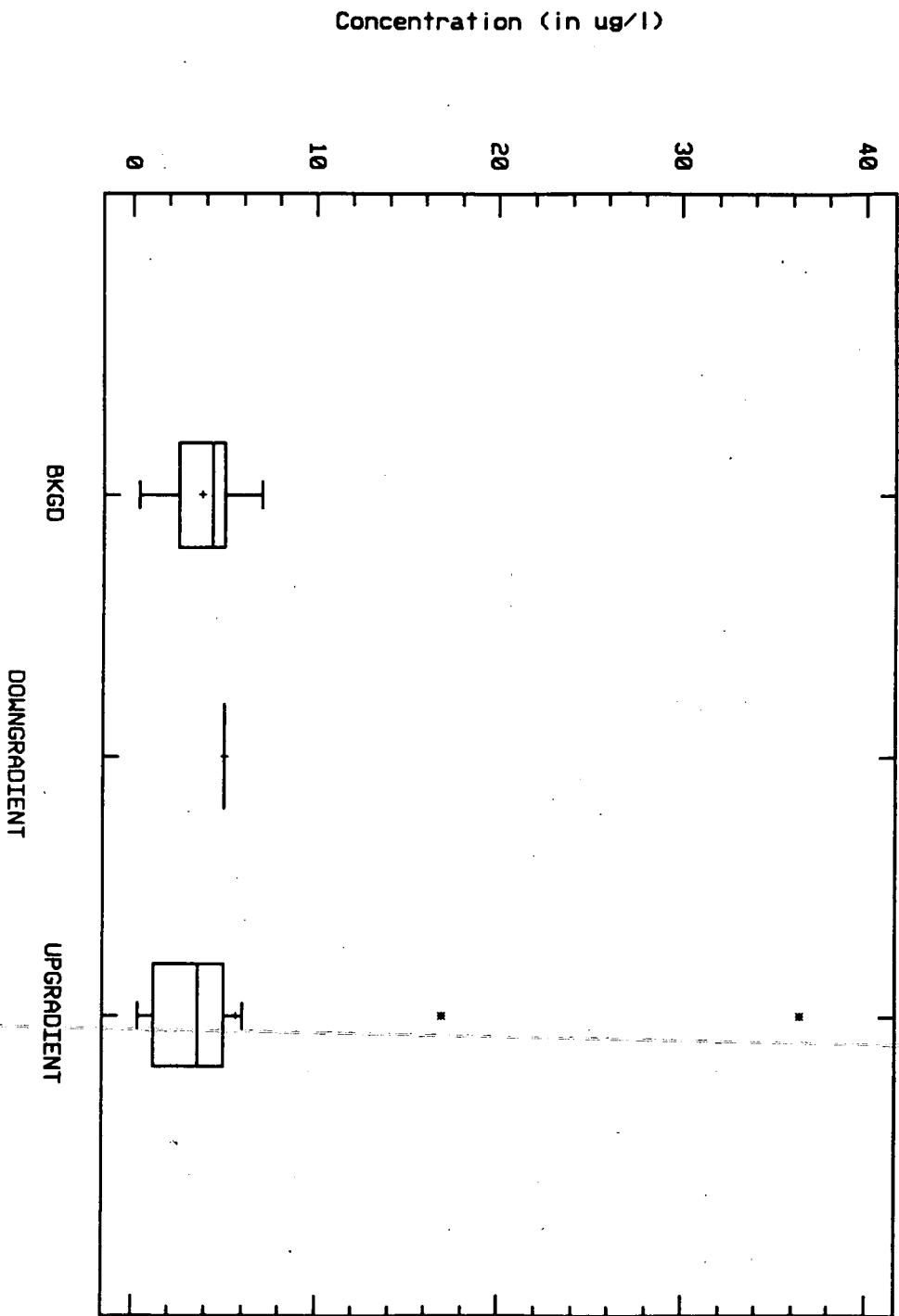
Background vs. OU7 LHSU



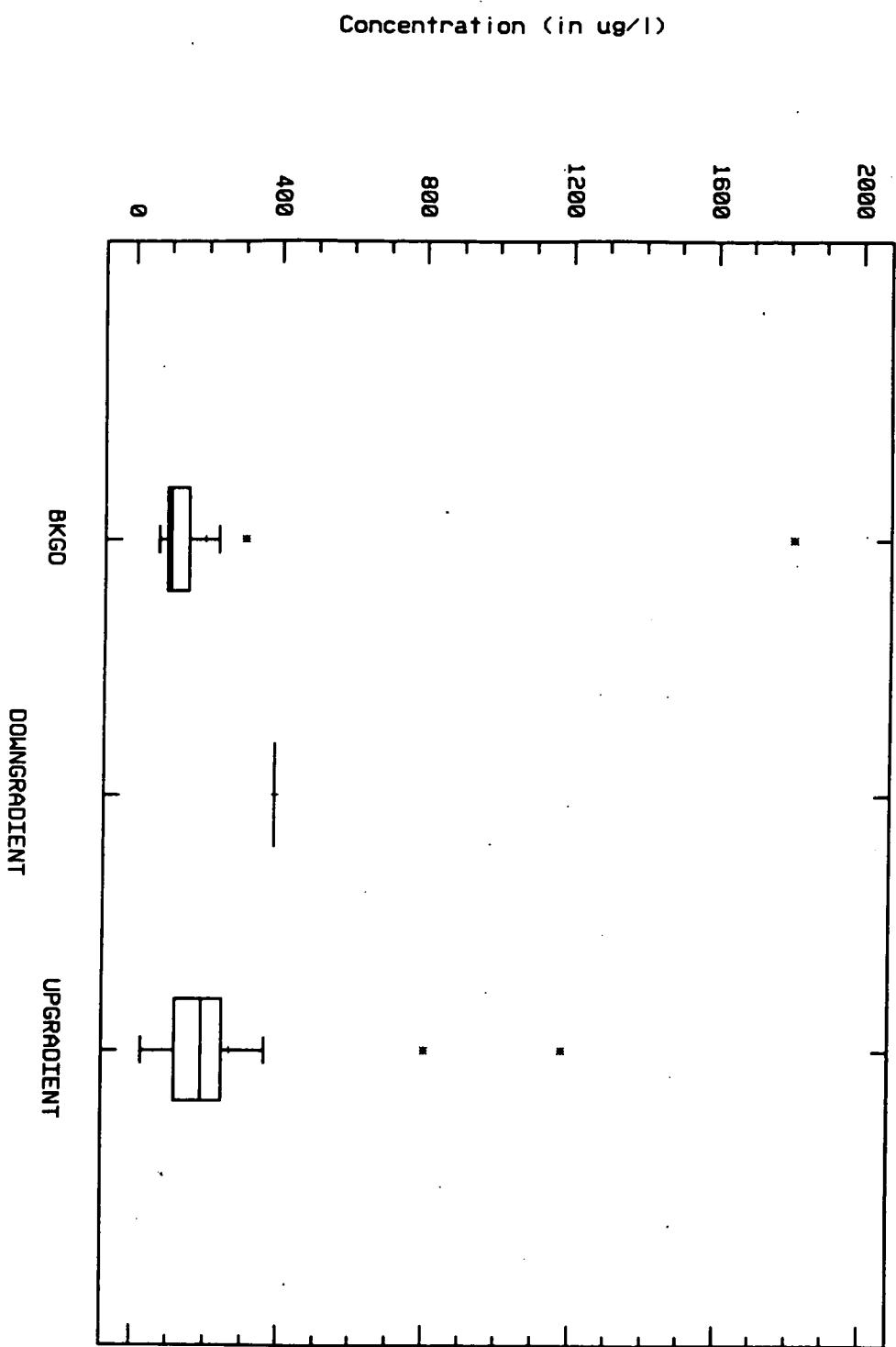
Antimony (Total): Groundwater
Background vs. OUT LHSU



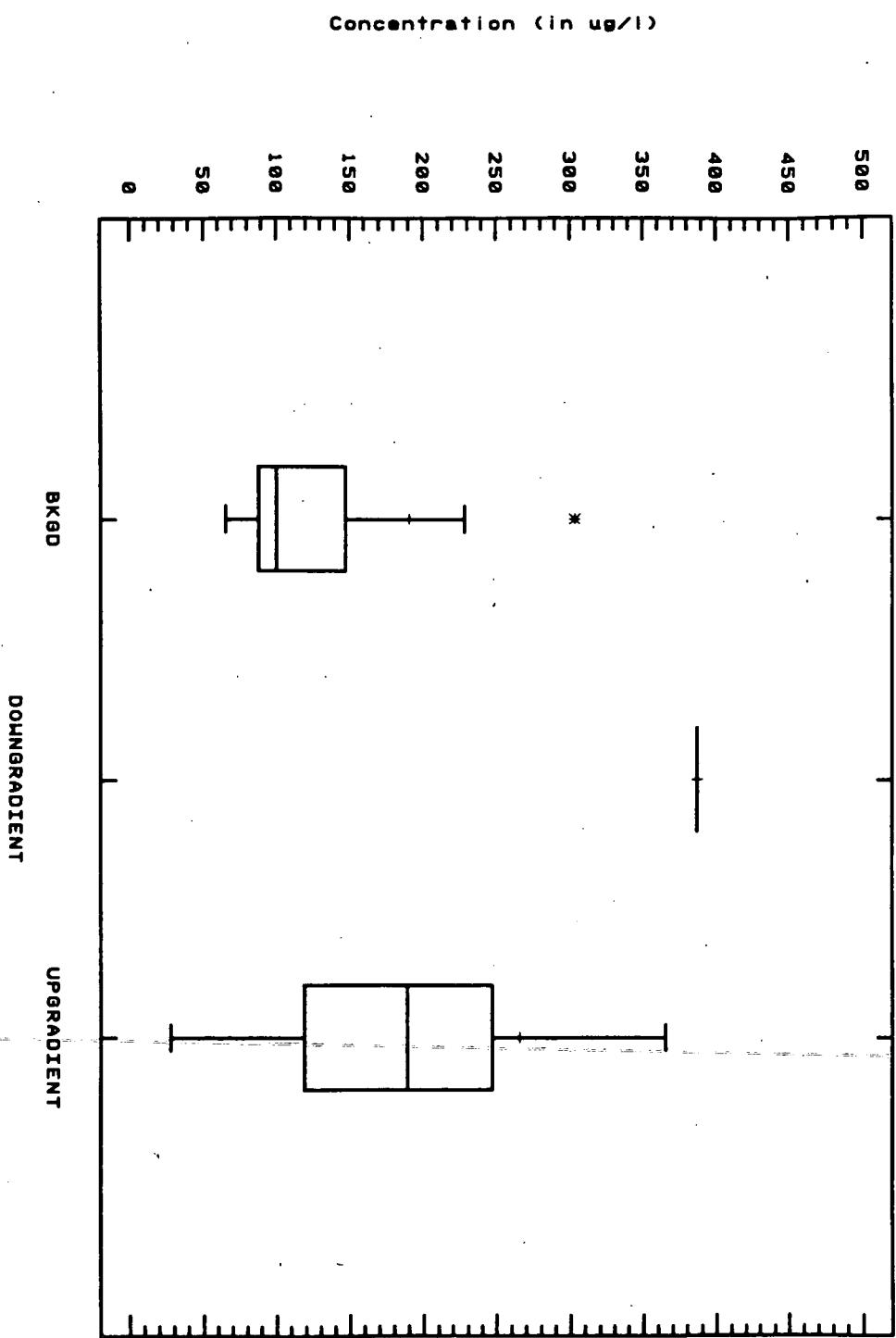
Arsenic (Total): Groundwater
Background vs. OUT LHSU



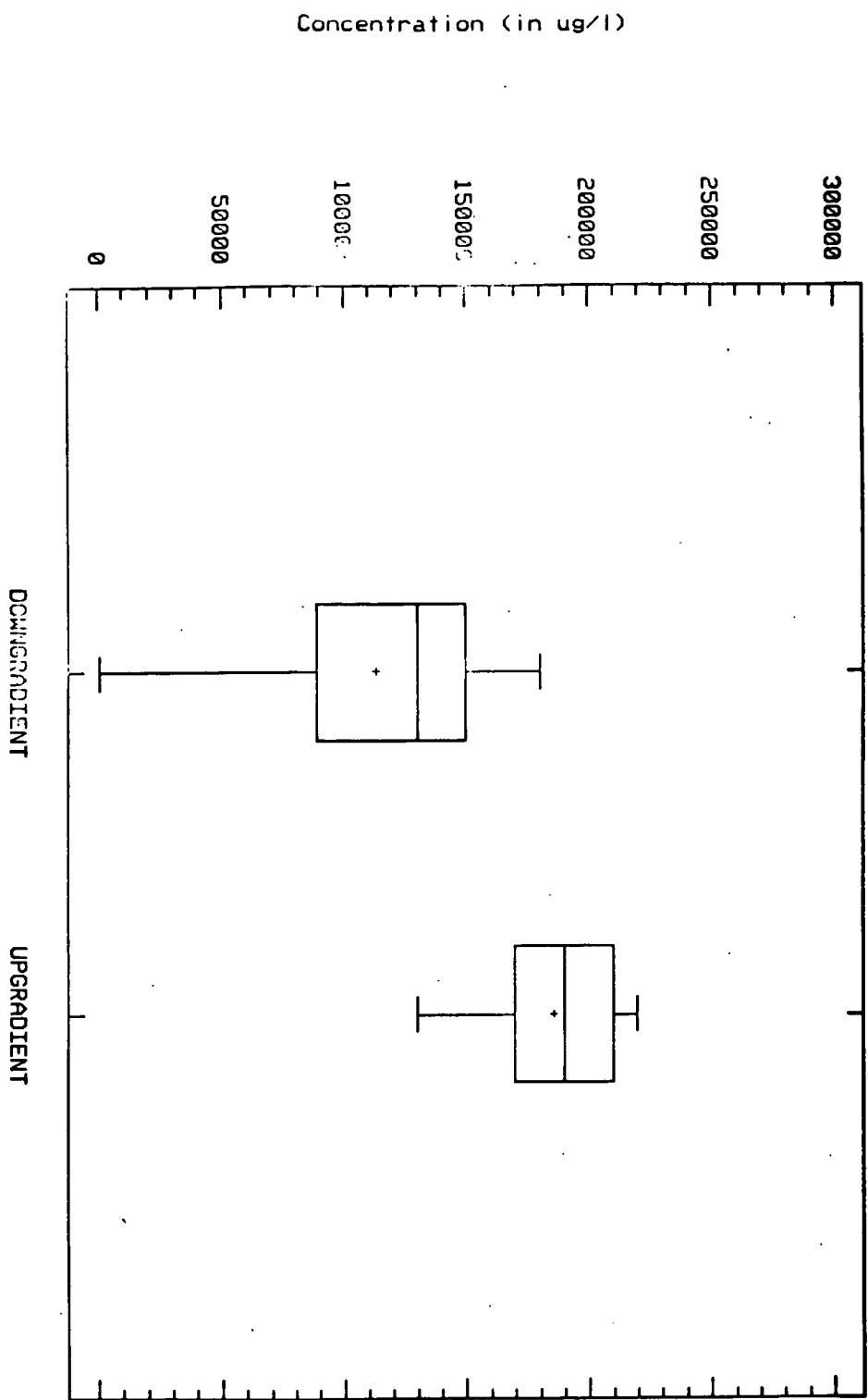
Barium (Total): Groundwater
Background vs. OUT LHSU



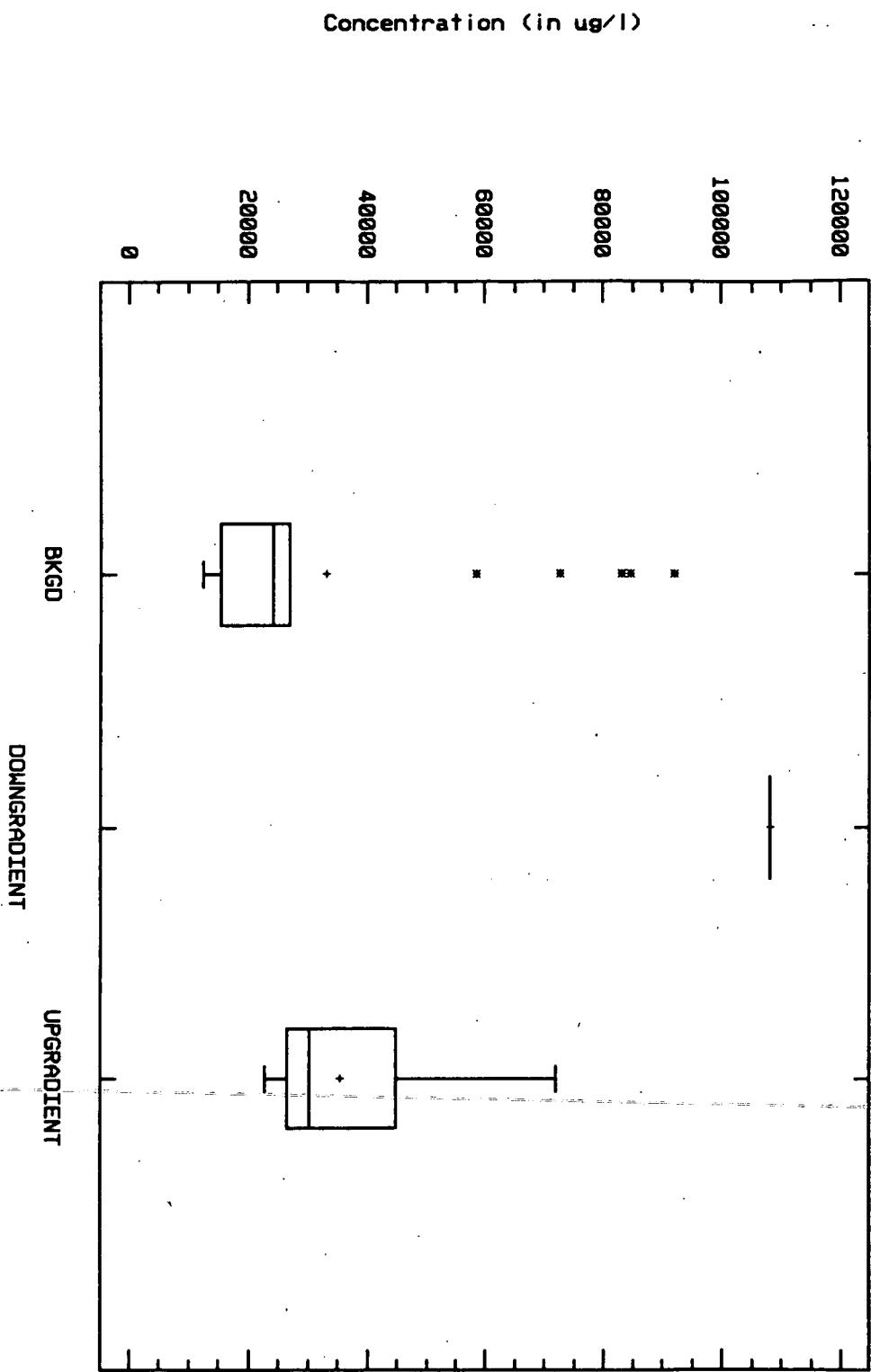
Barium (Total): Groundwater
Background vs. OUT LHSU



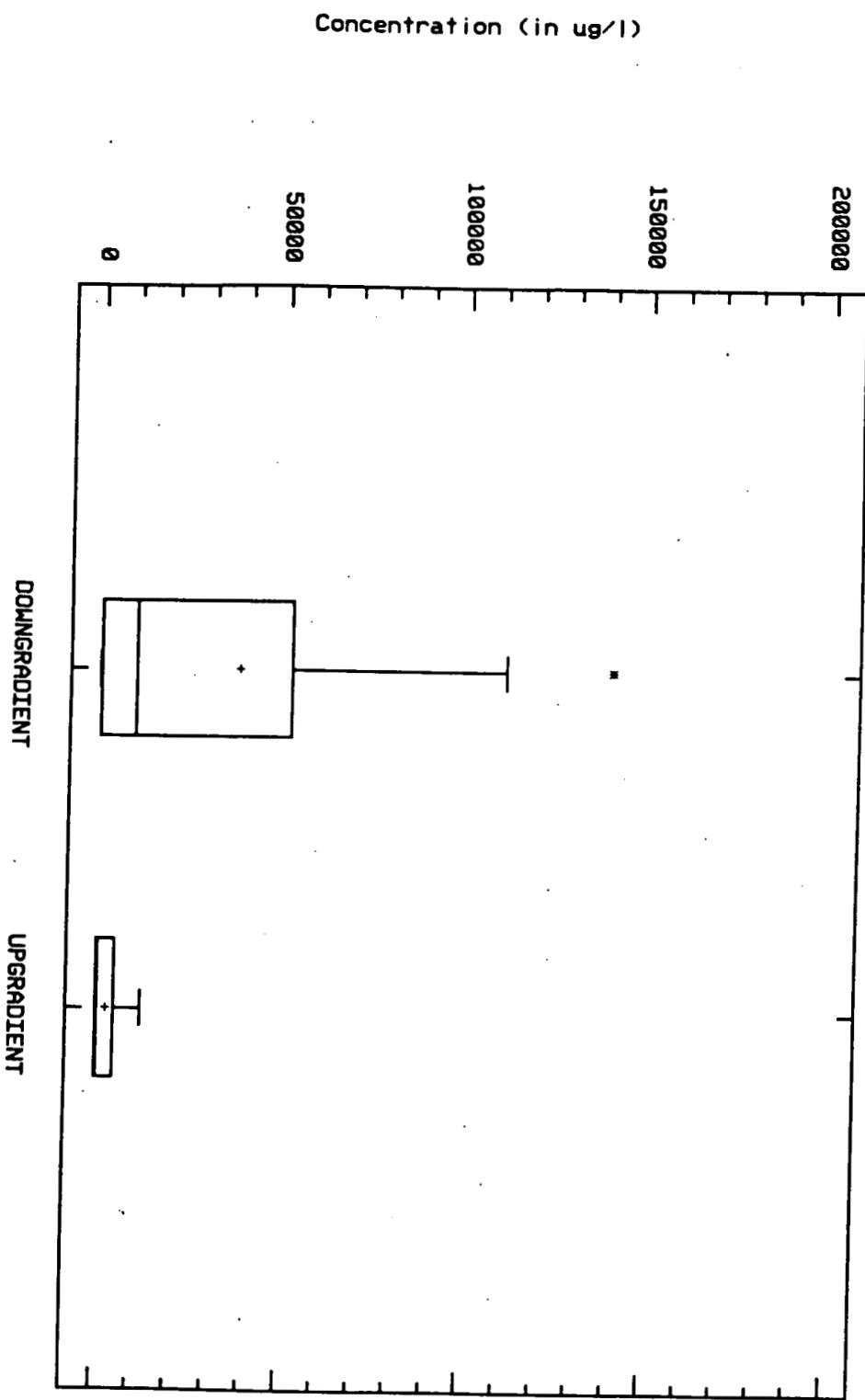
Bicarbonate As CaCO₃ Total: Groundwater
Background vs. OUT LHSU



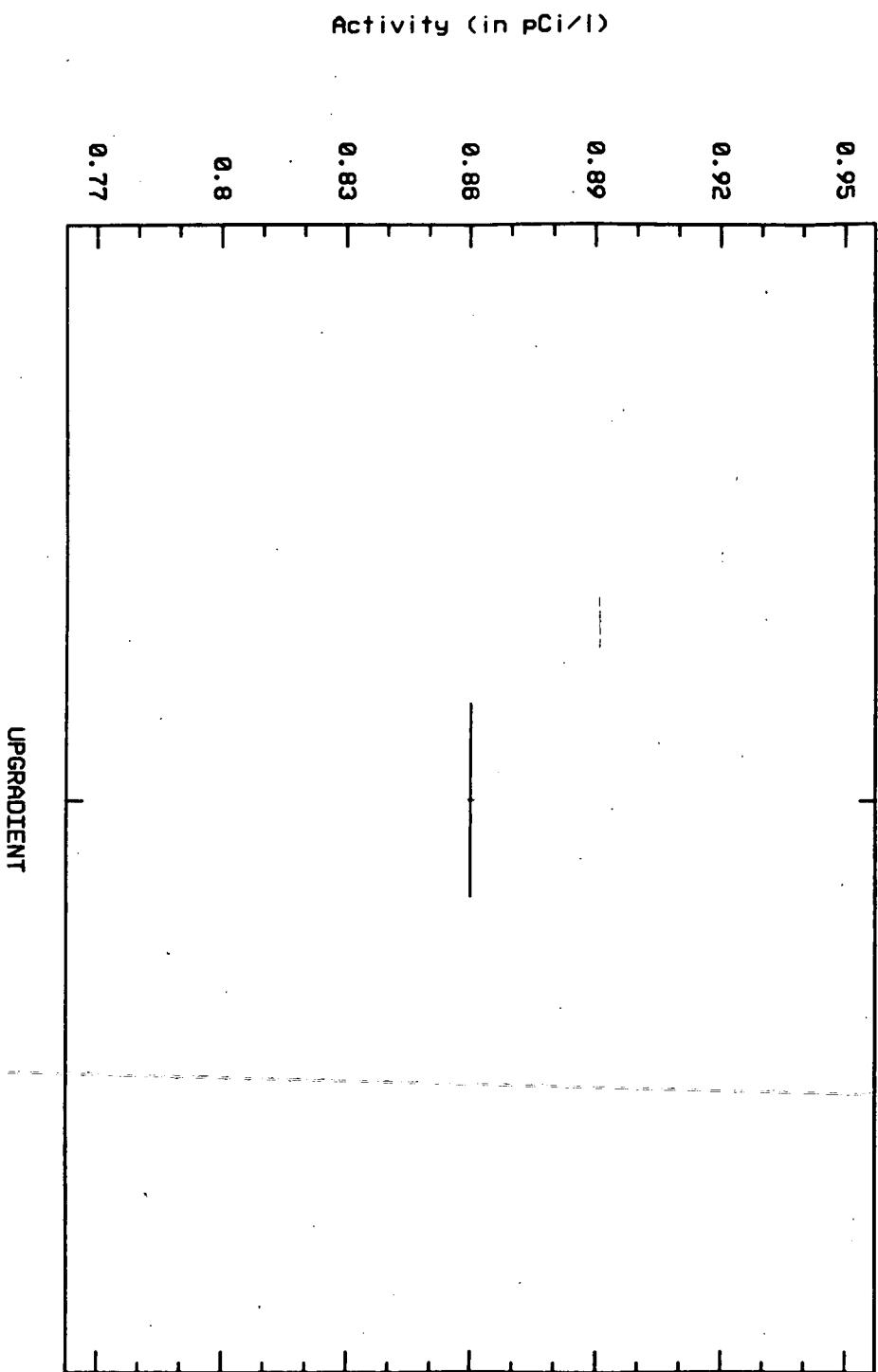
**Calcium (Total): Groundwater
Background vs. 017 LHSU**



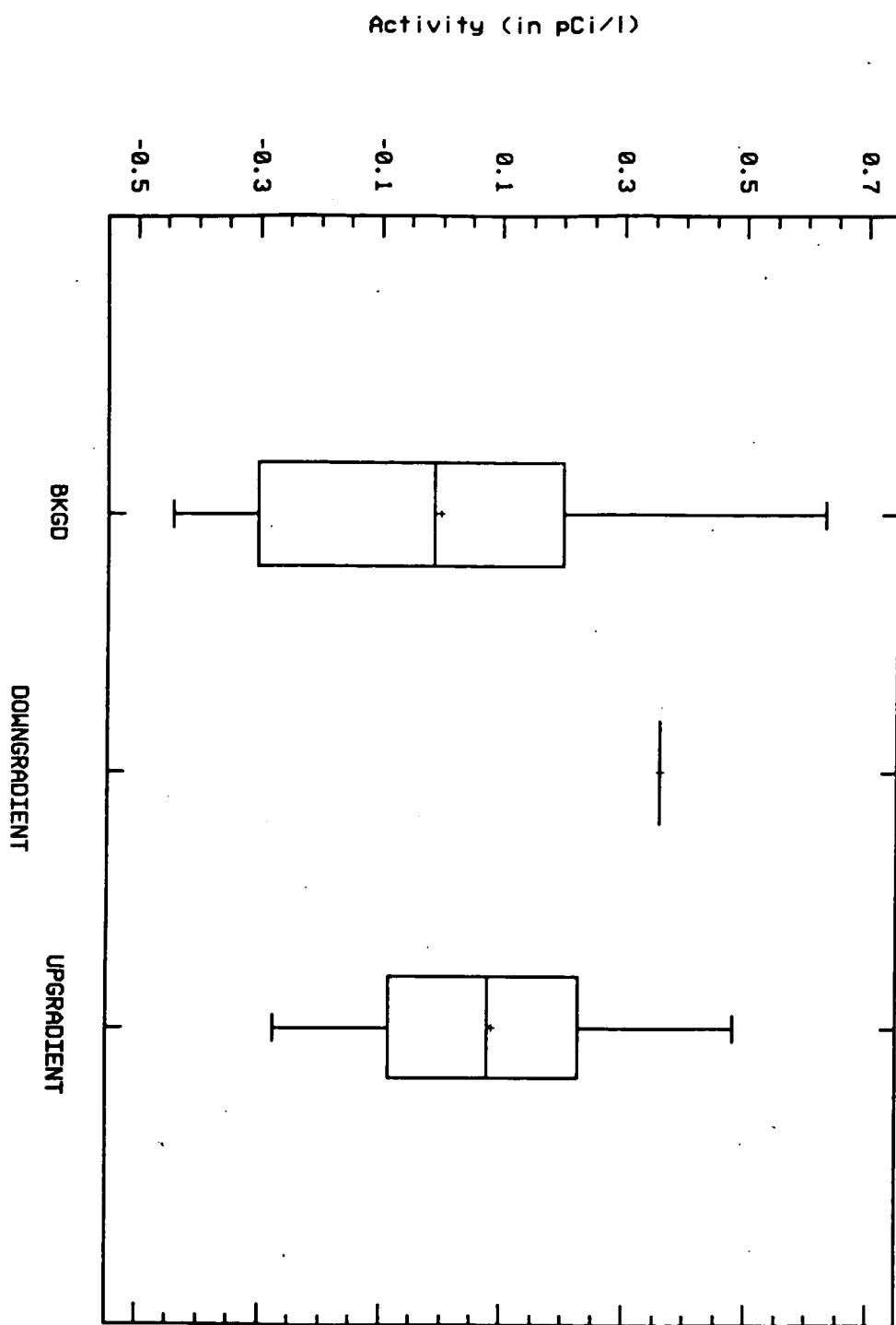
Carbonate as CaCO₃ (Total): Groundwater
Background vs. 0U7 LHSU



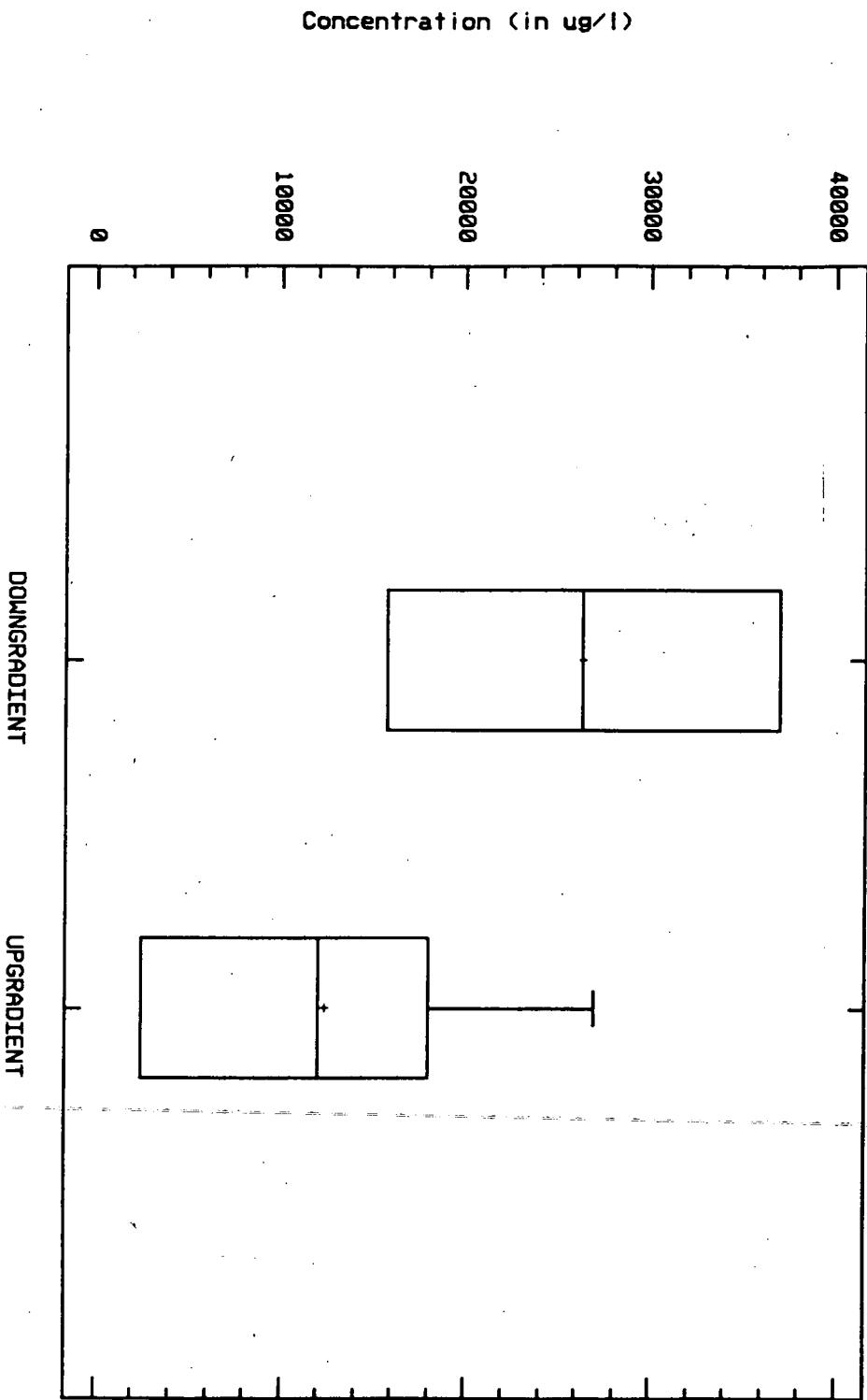
Cesium-134 (Total): Groundwater
Background vs. 0U7 LHSU



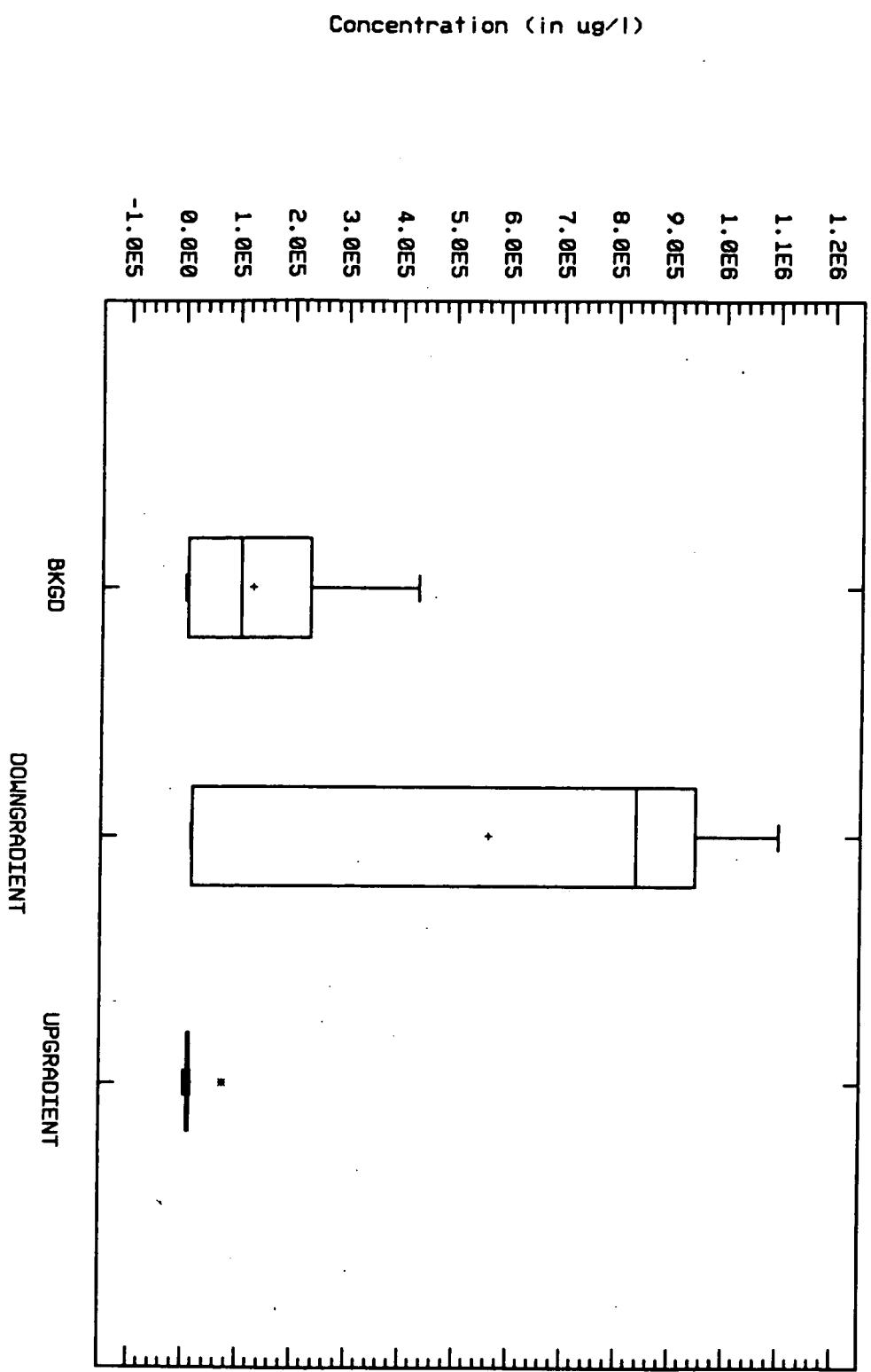
Cesium-137 (Total): Groundwater
Background vs. OU7 LHSU



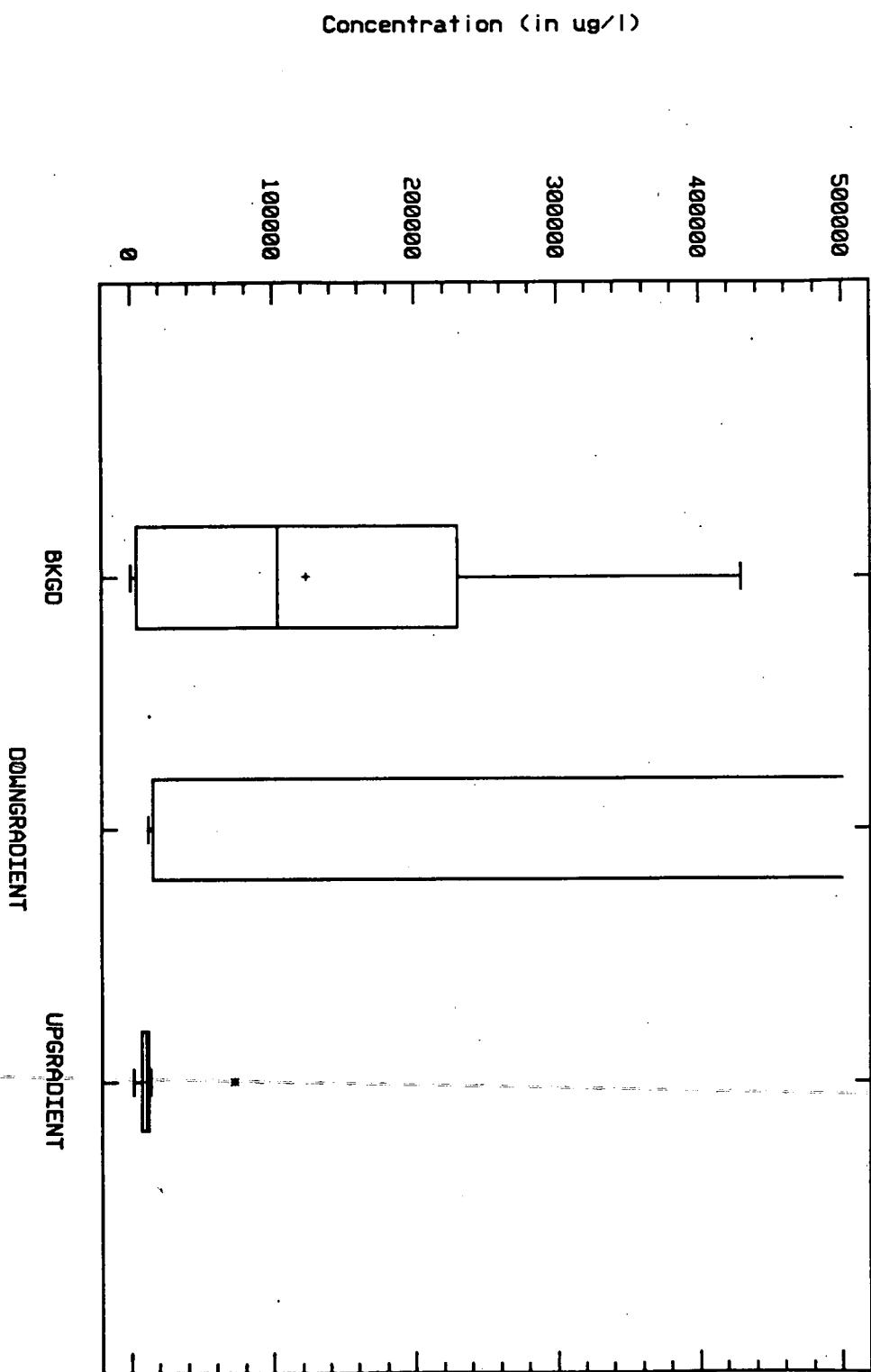
T. Chemical Oxygen demand: Groundwater
Background vs. OUT LHSU



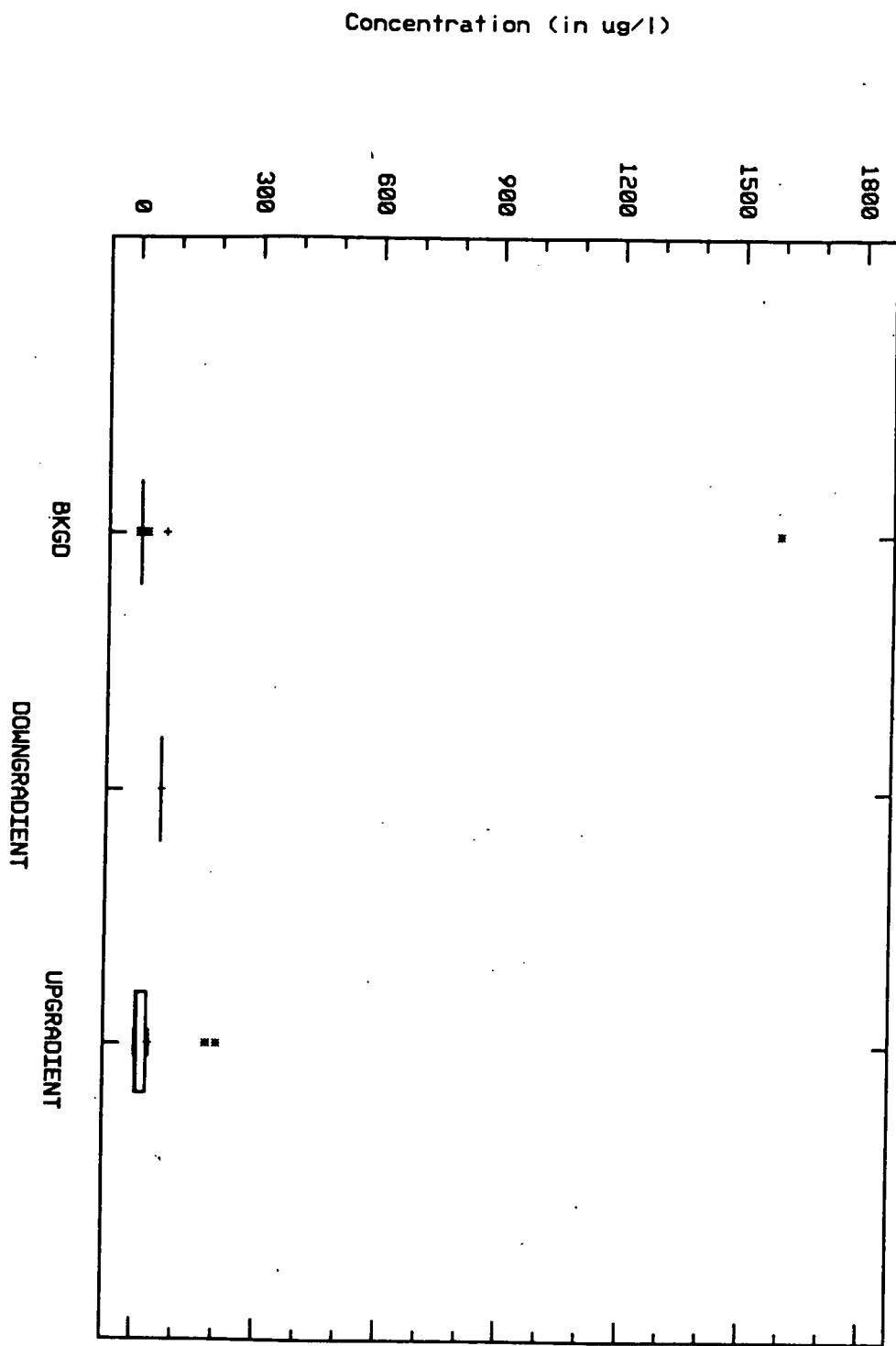
Chloride (Total): Groundwater
Background vs. OUT LHSU



Chloride (Total): Groundwater
Background vs. 0U7 LHSU

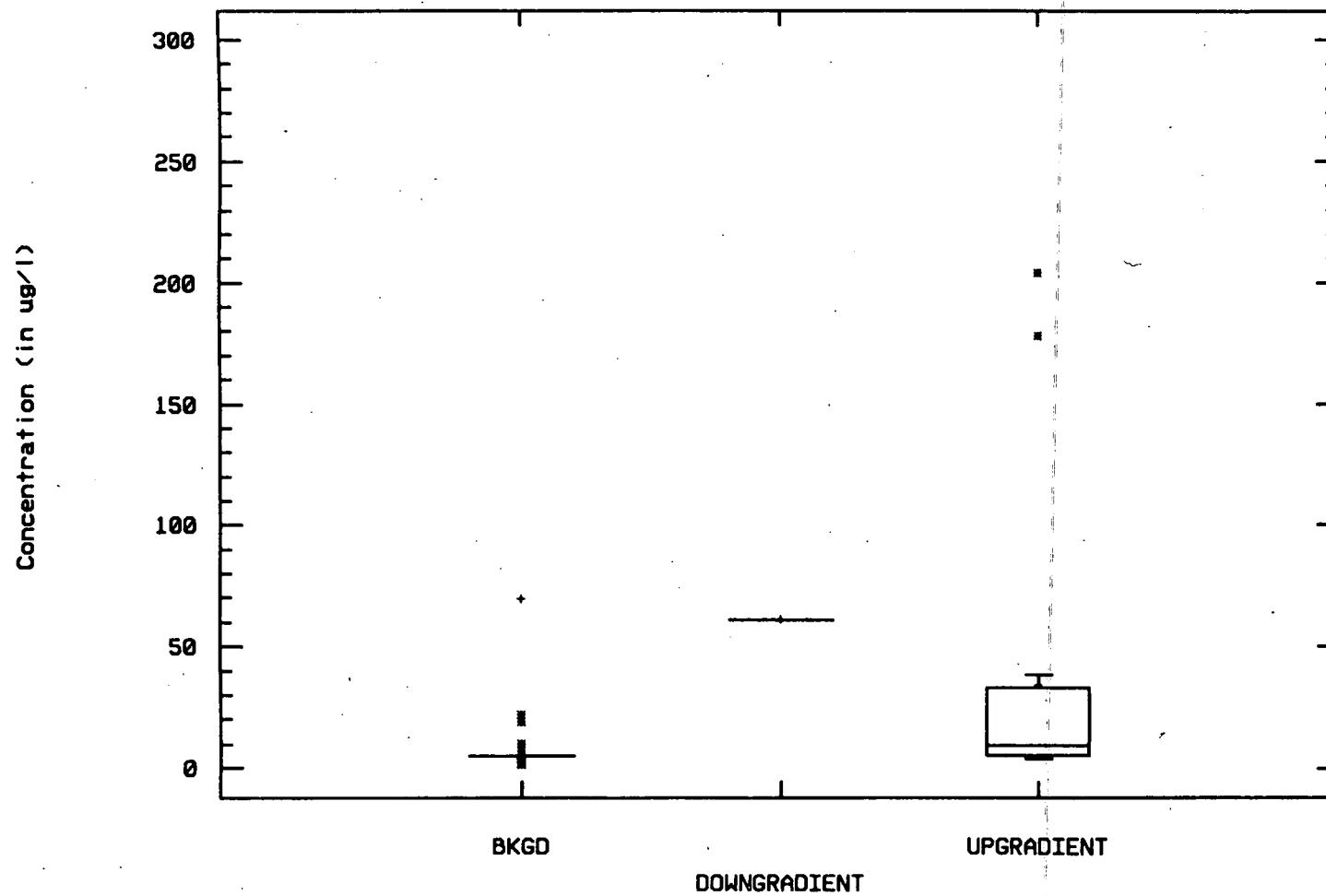


Chromium (Total): Groundwater
Background vs. OUT LHSU

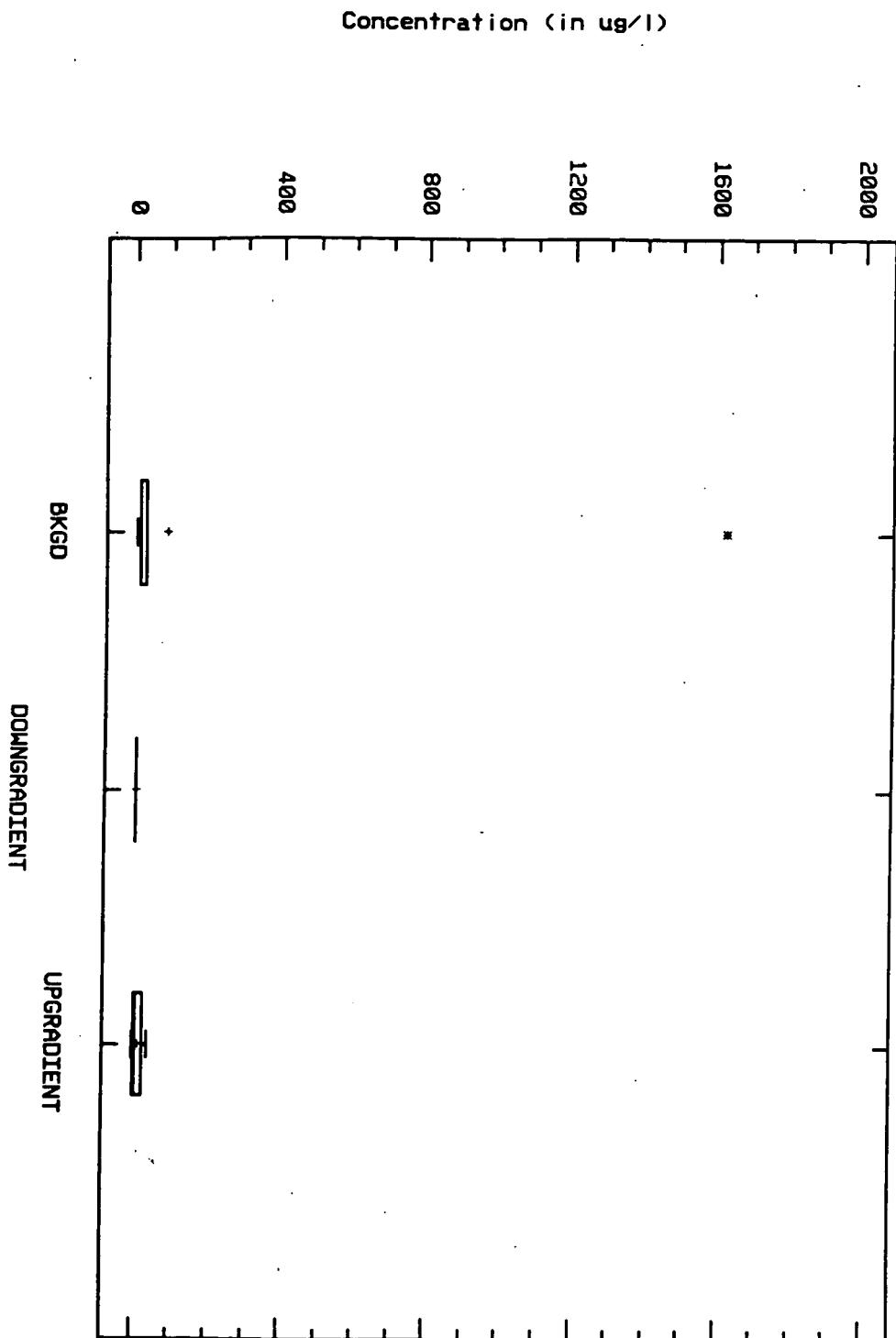


Chromium (Total): Groundwater

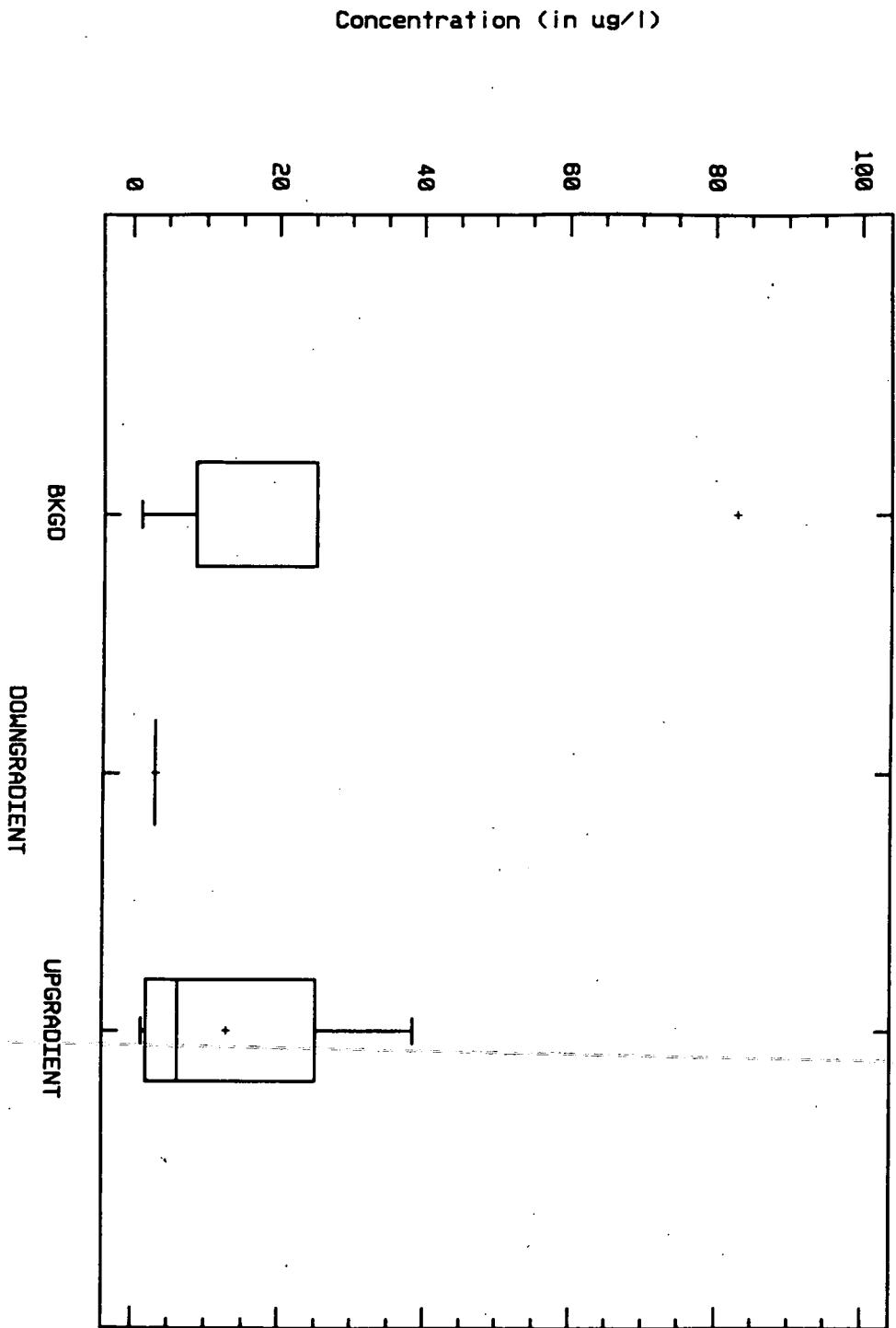
Background vs. OU7 LHSU



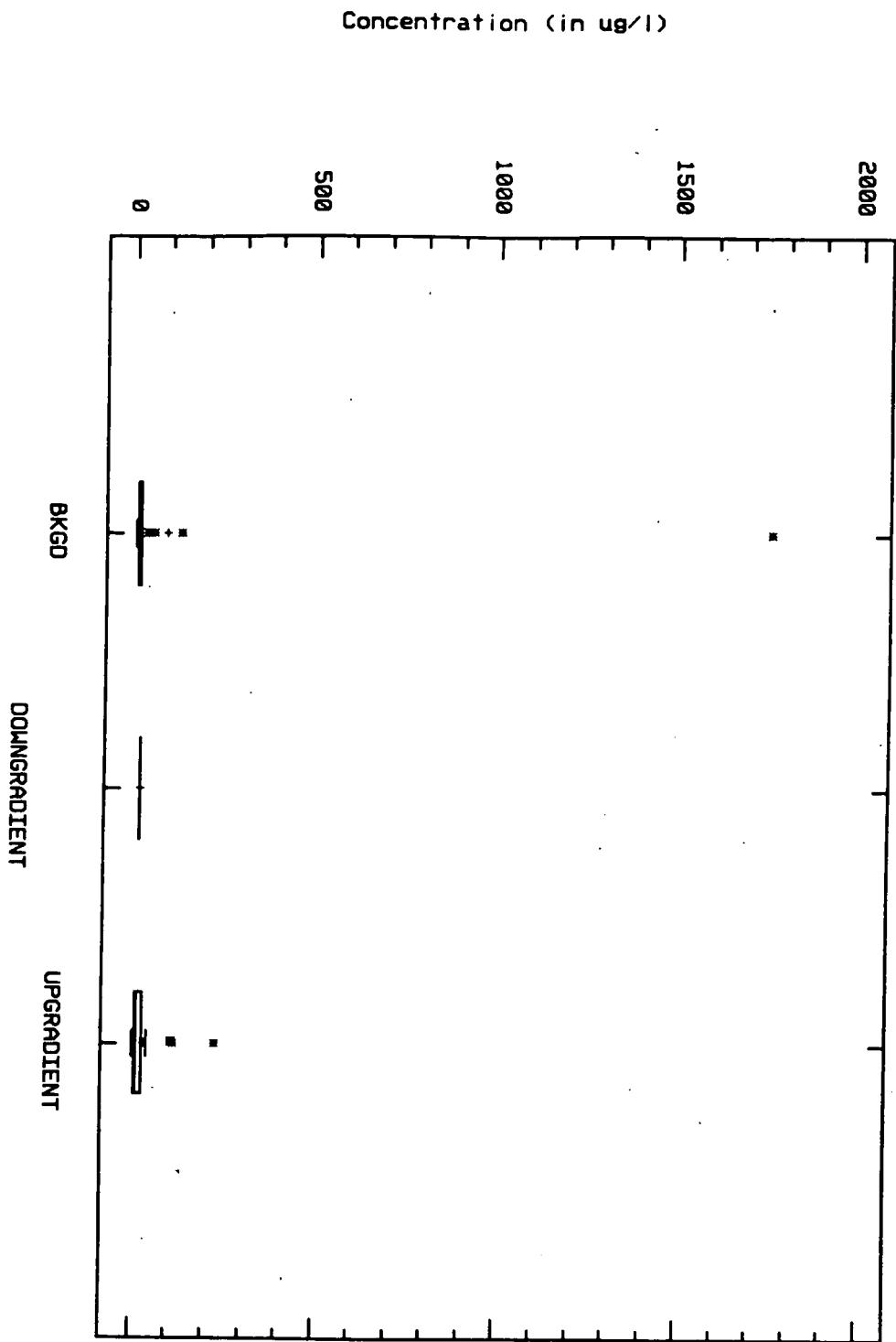
Cobalt (Total): Groundwater
Background vs. 0U7 LHSU



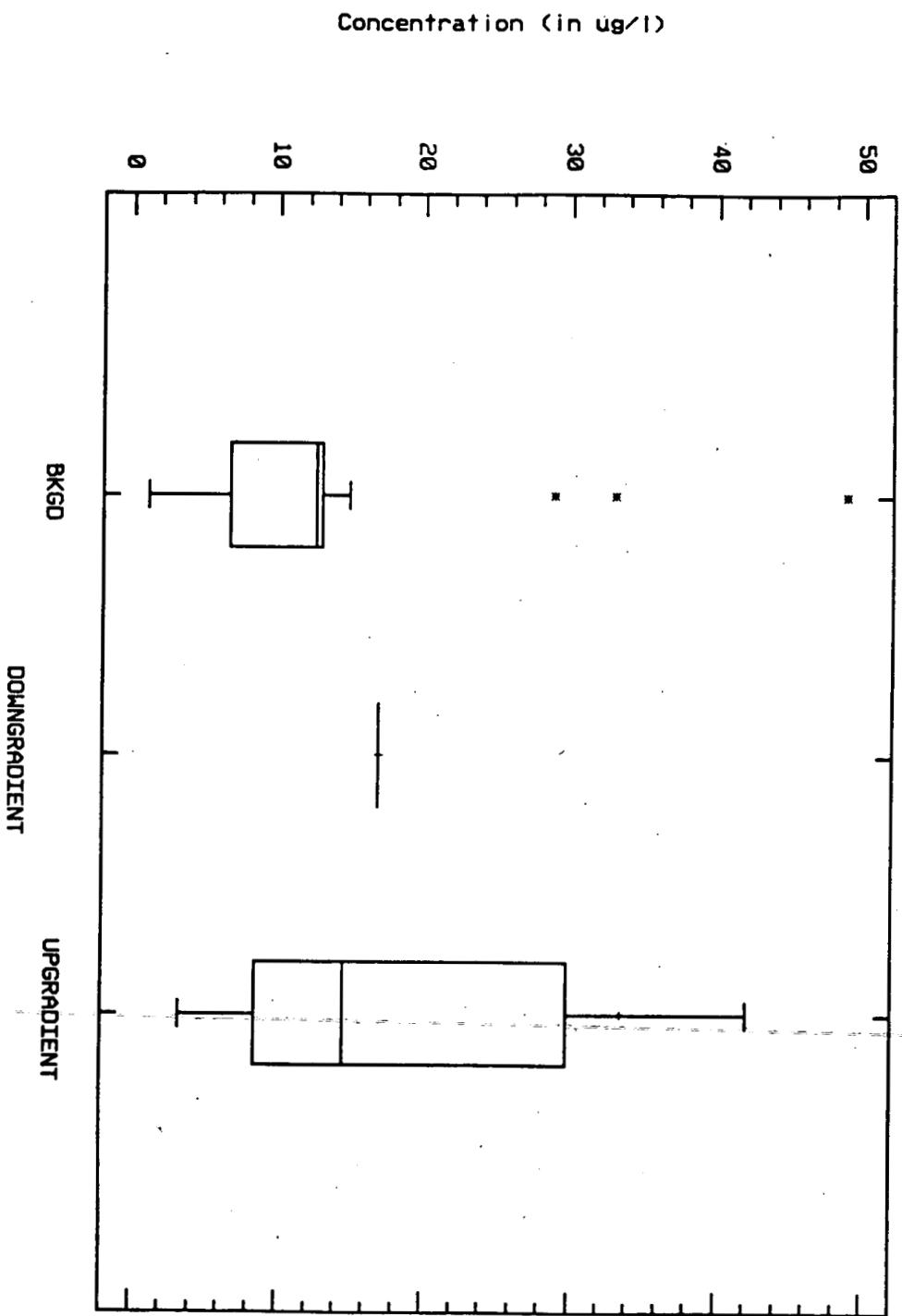
**Cobalt (Total): Groundwater
Background vs. 017 LHSU**



COPPER (Total): Groundwater
Background vs. OUT LHSU

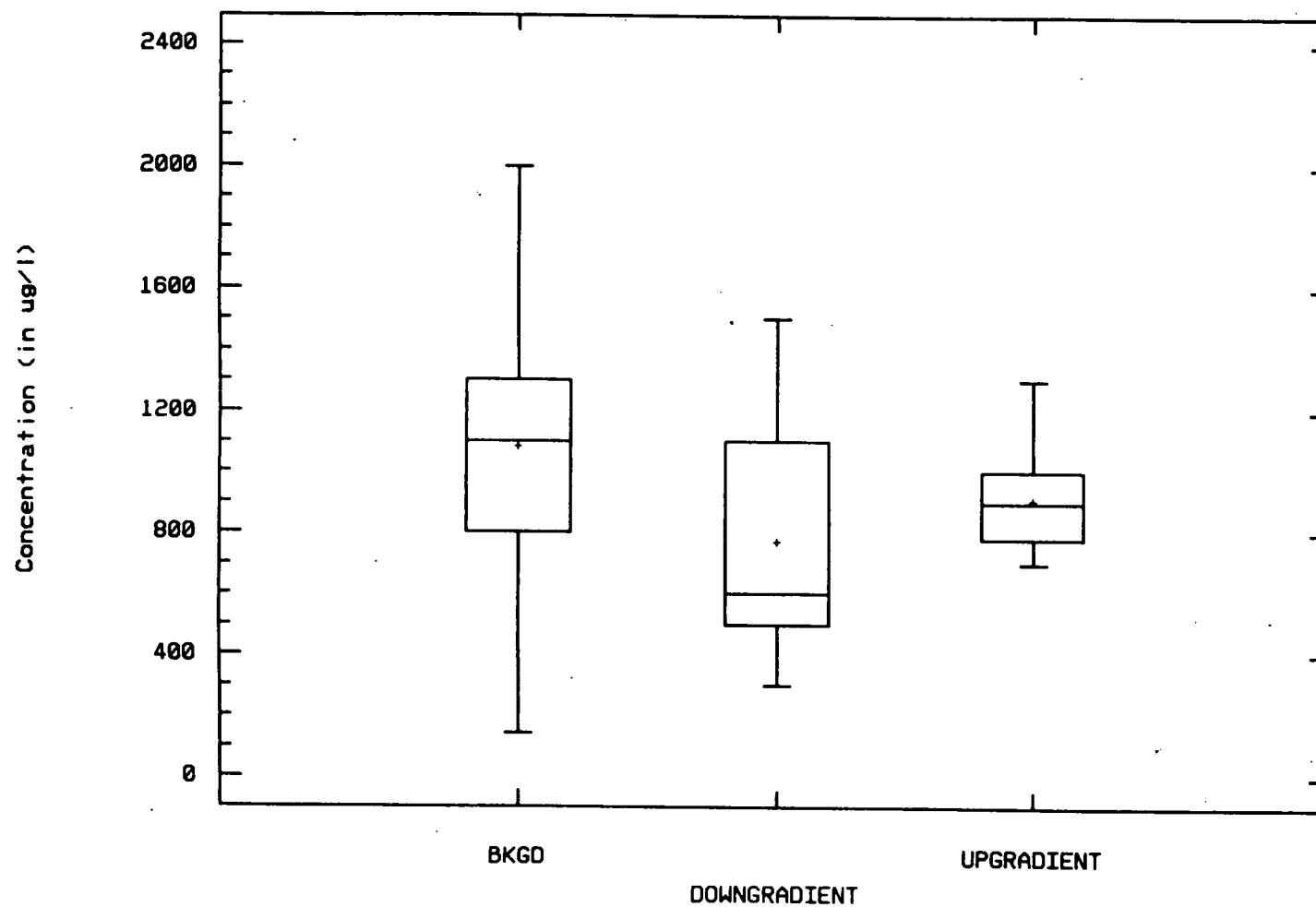


Copper (Total): Groundwater
Background vs. 0U7 LHSU

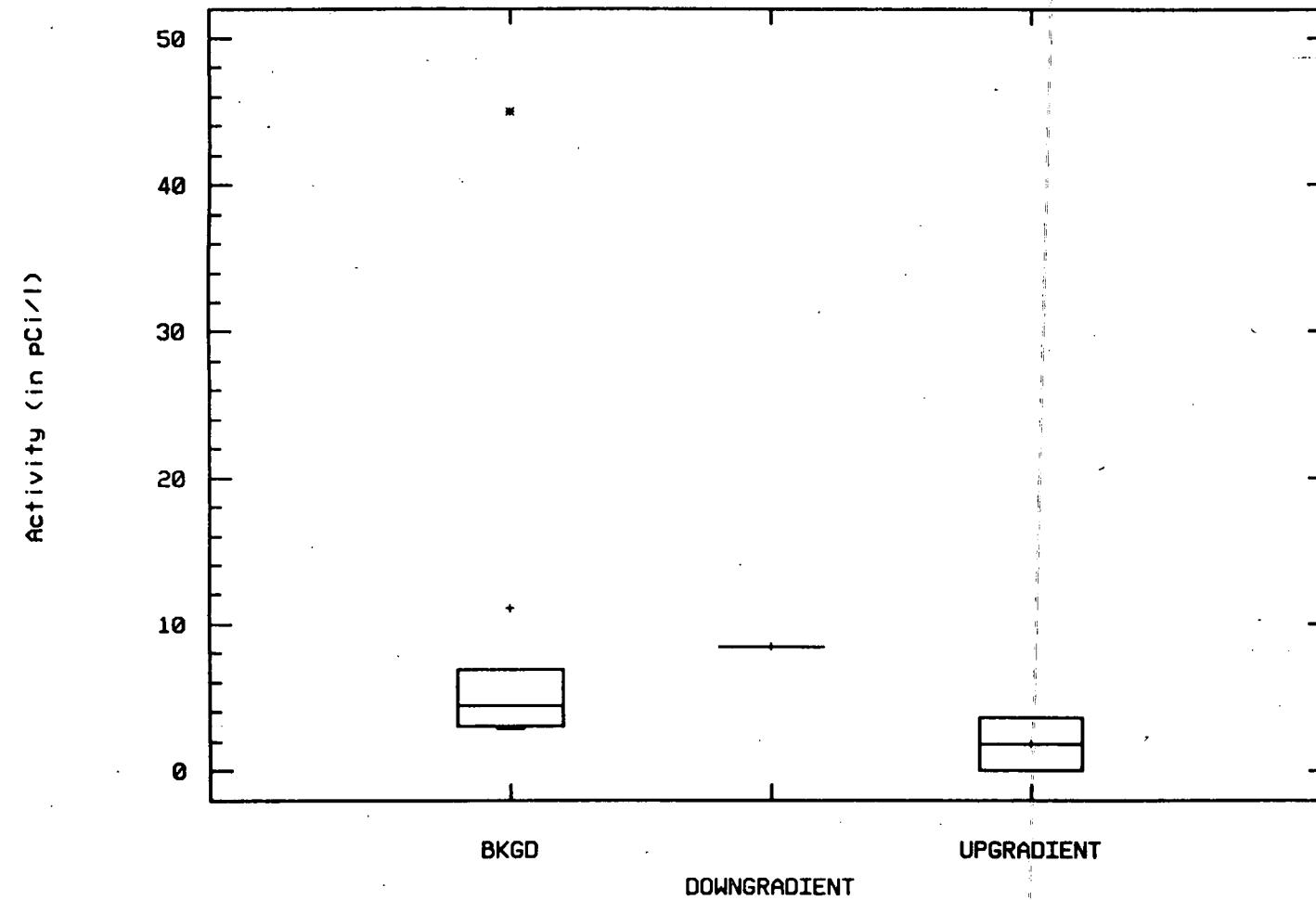


Fluoride (Total): Groundwater

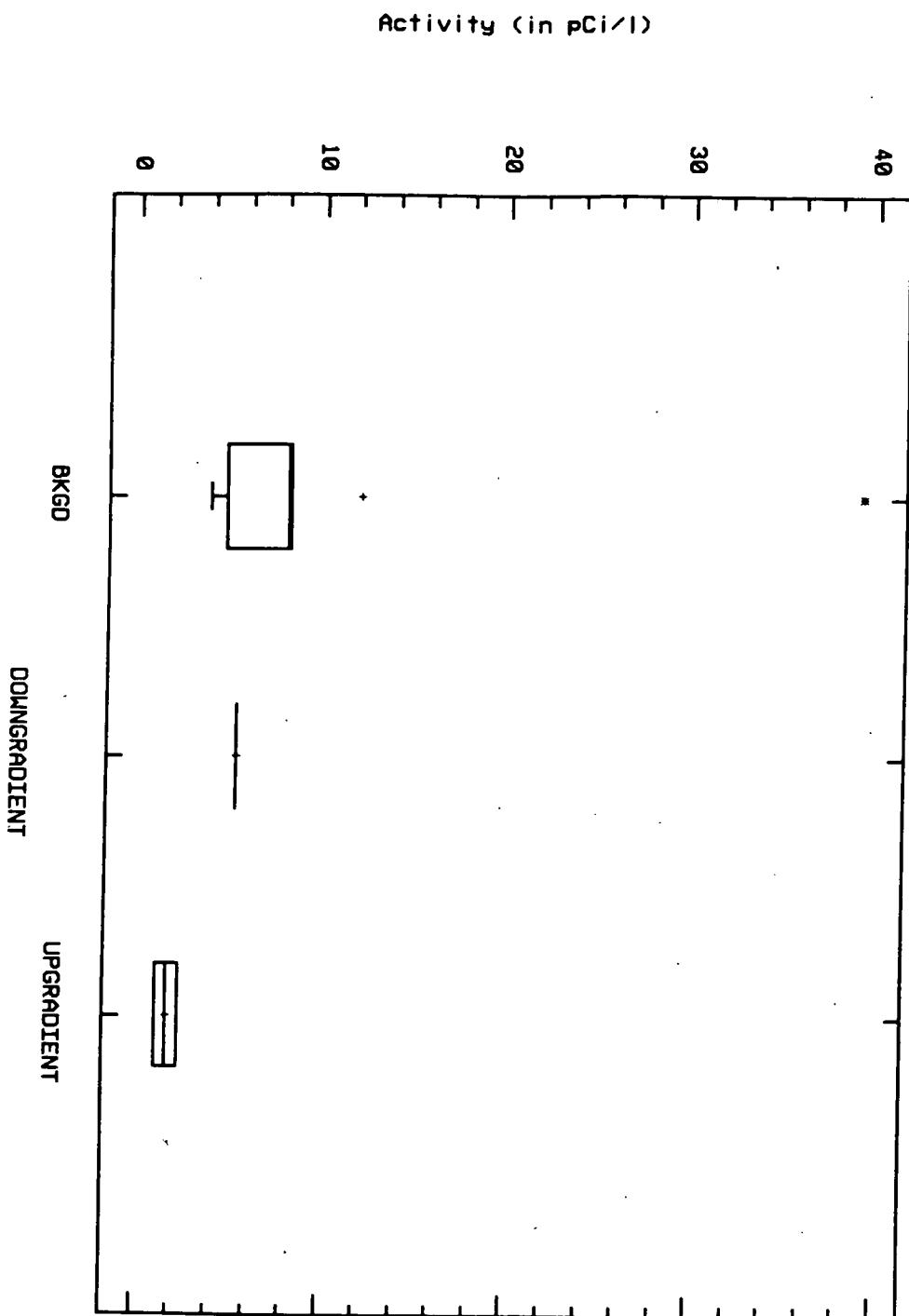
Background vs. OU7 LHSU



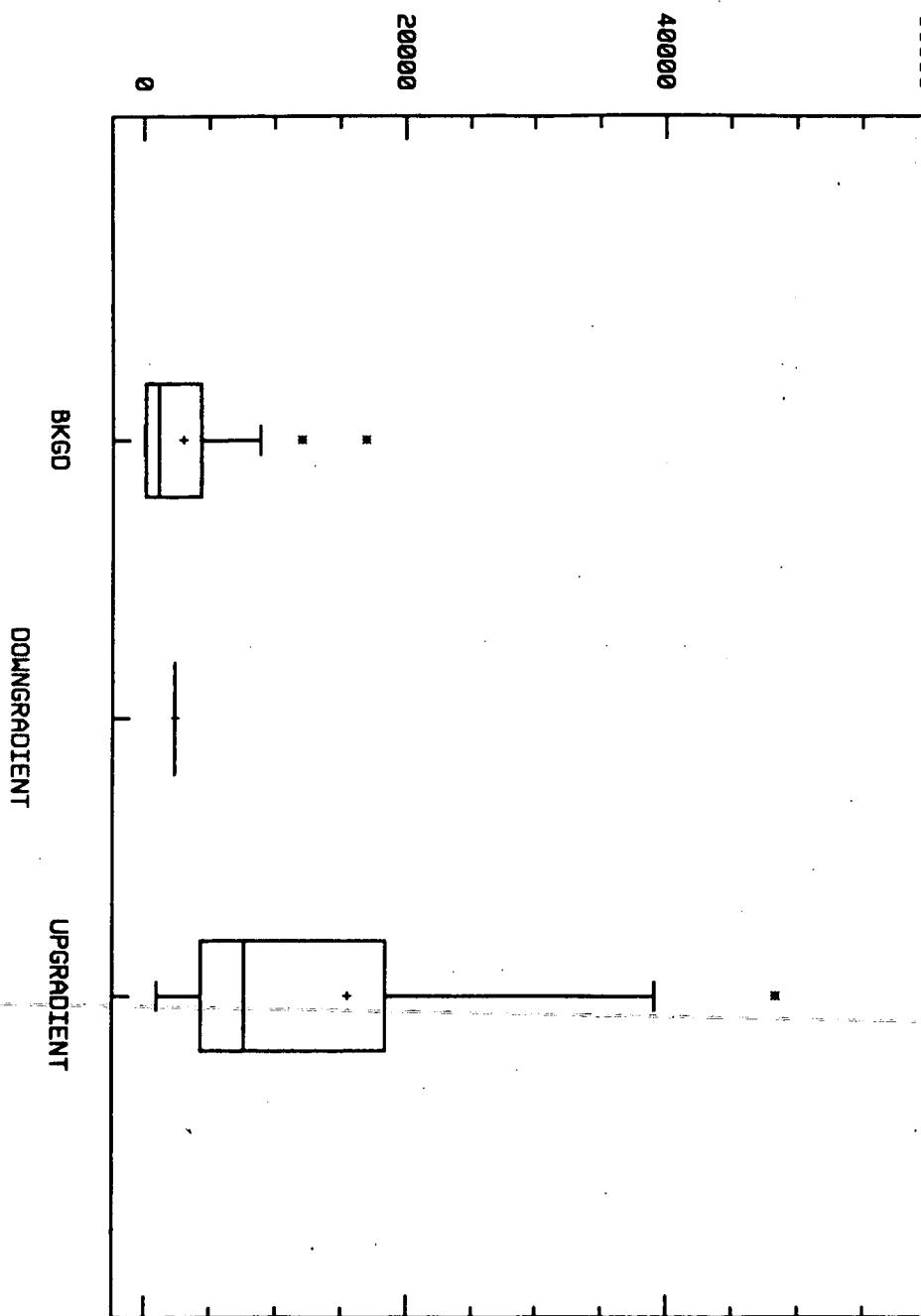
Gross Alpha (Total): Groundwater
Background vs. OU7 LHSU



Gross Beta (Total): Groundwater
Background vs. OUT LHSU

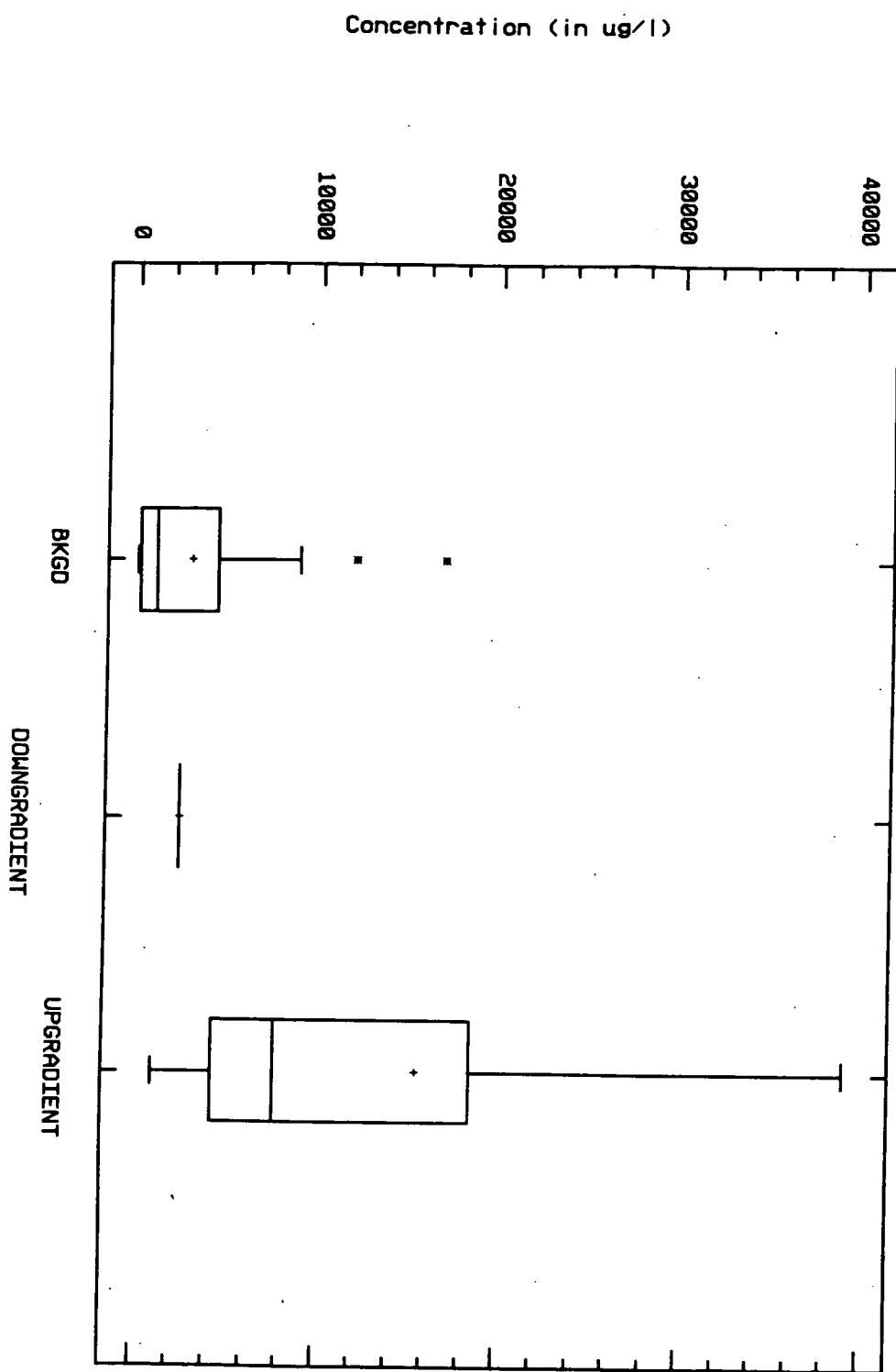


Concentration (in ug/l)

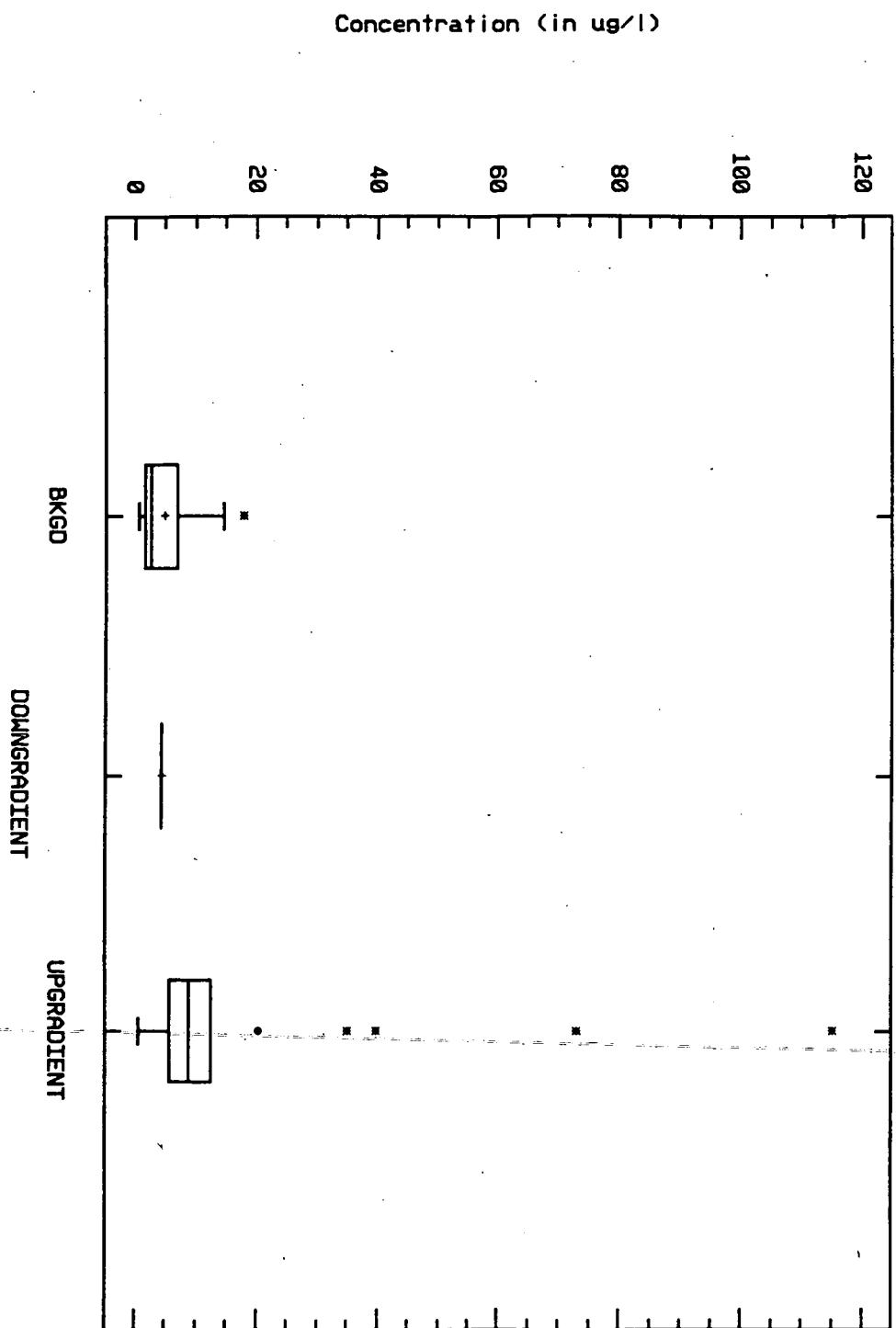


Iron (Total): Groundwater
Background vs. OUT LHSU

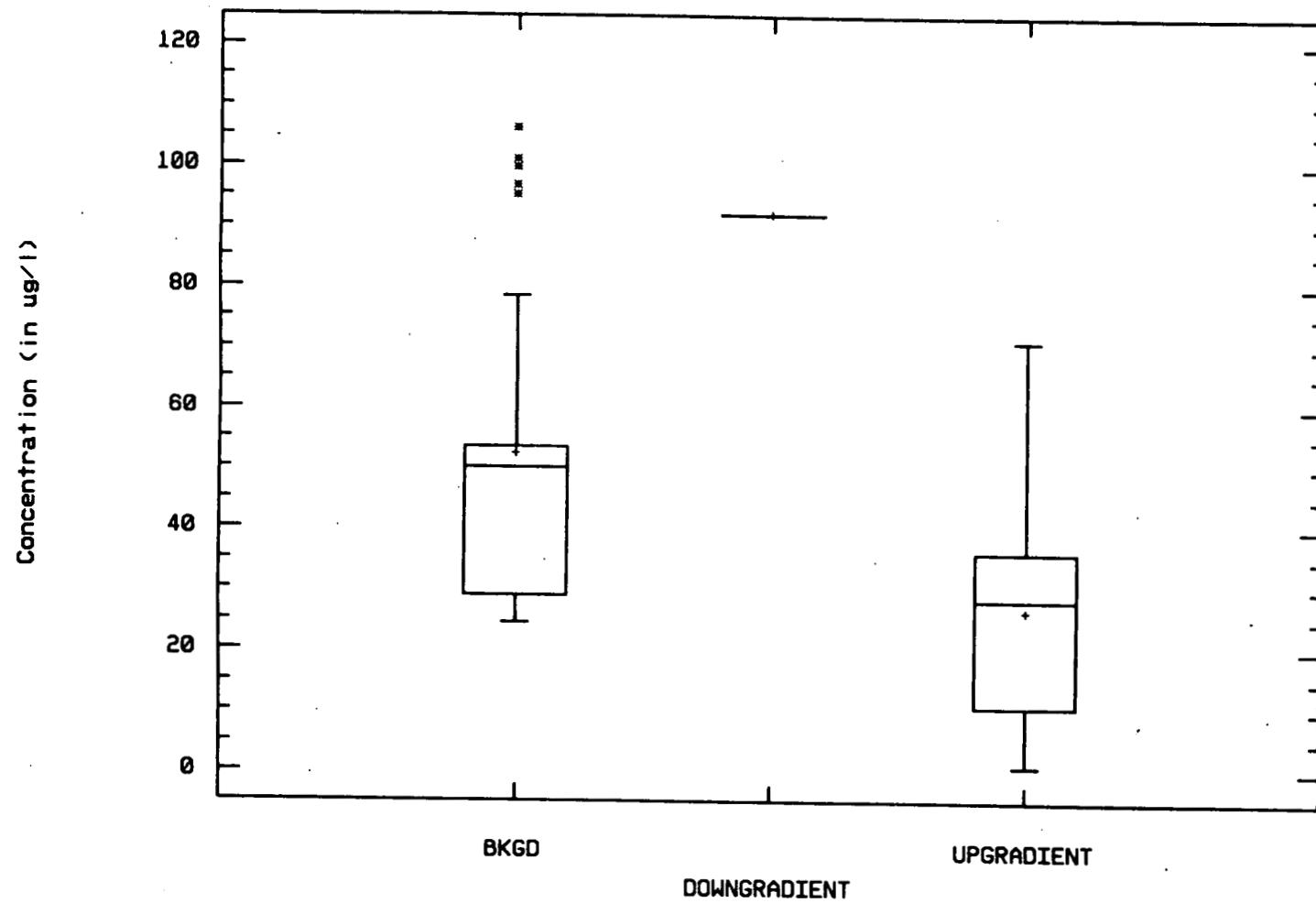
Iron (Total): Groundwater
Background vs. OUT LHSU



Lead (Total): Groundwater
Background vs. 017 LHSU



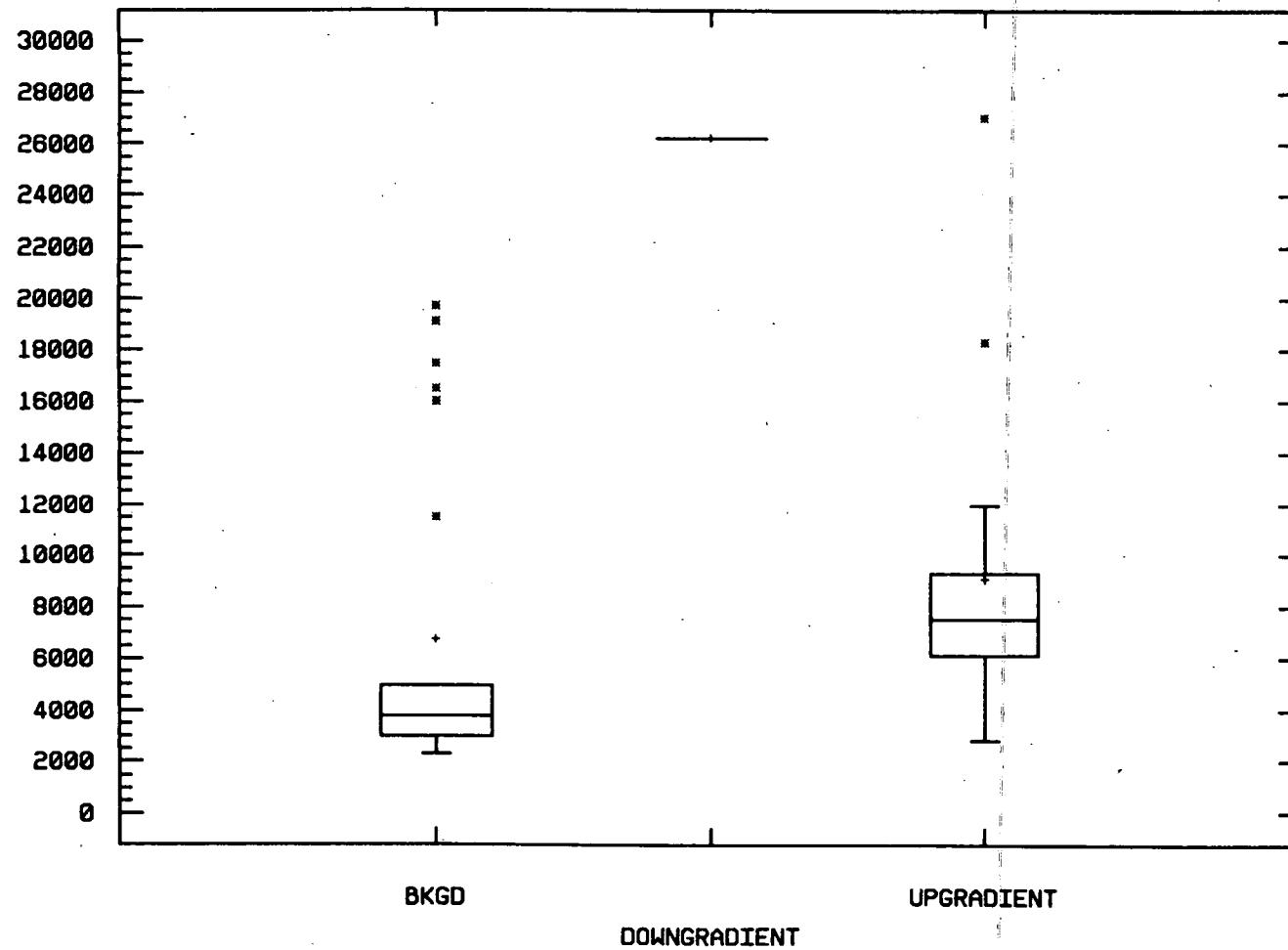
Lithium (Total): Groundwater
Background vs. OU7 LHSU



Concentration (in ug/l)

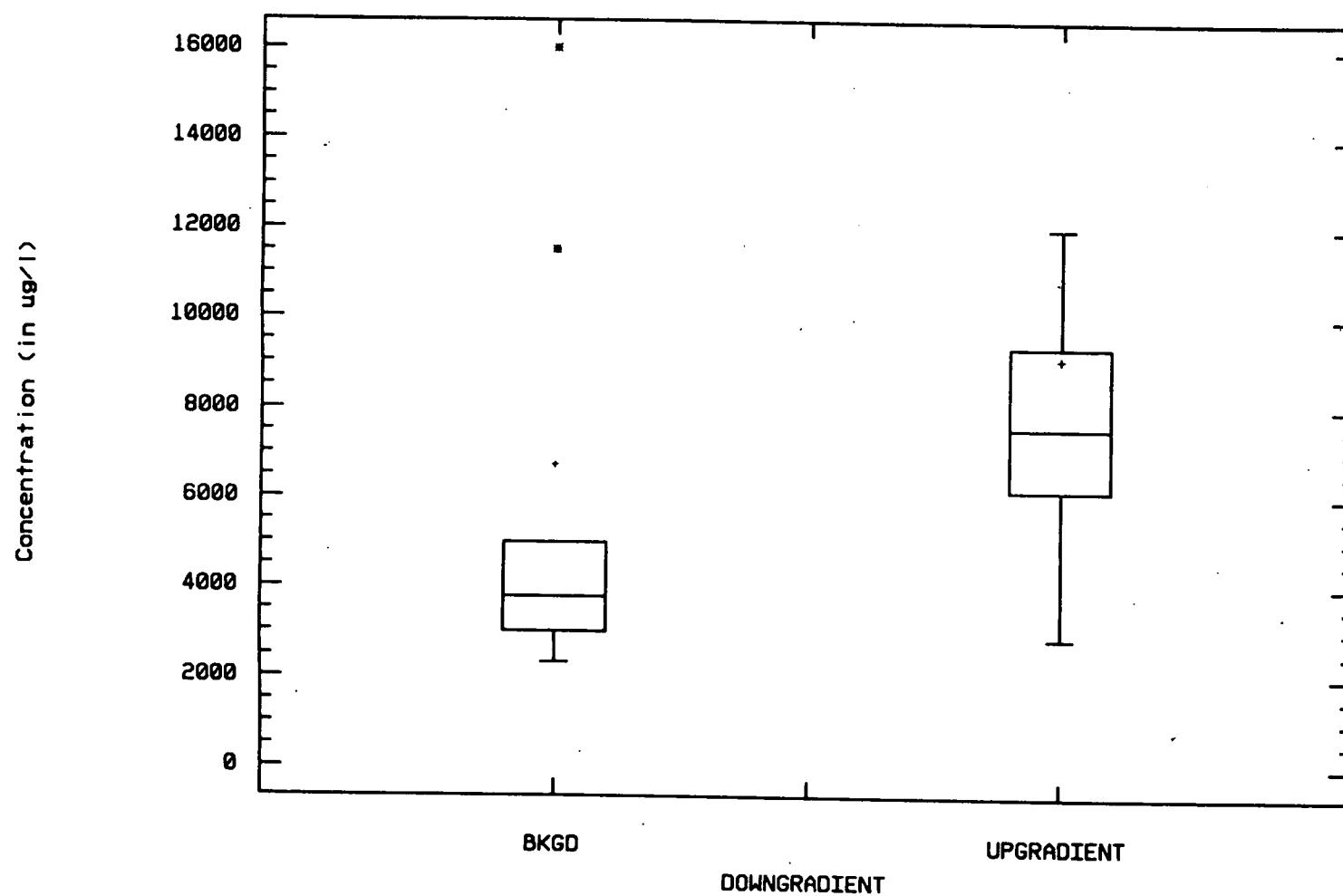
Magnesium (Total): Groundwater

Background vs. OU7 LHSU

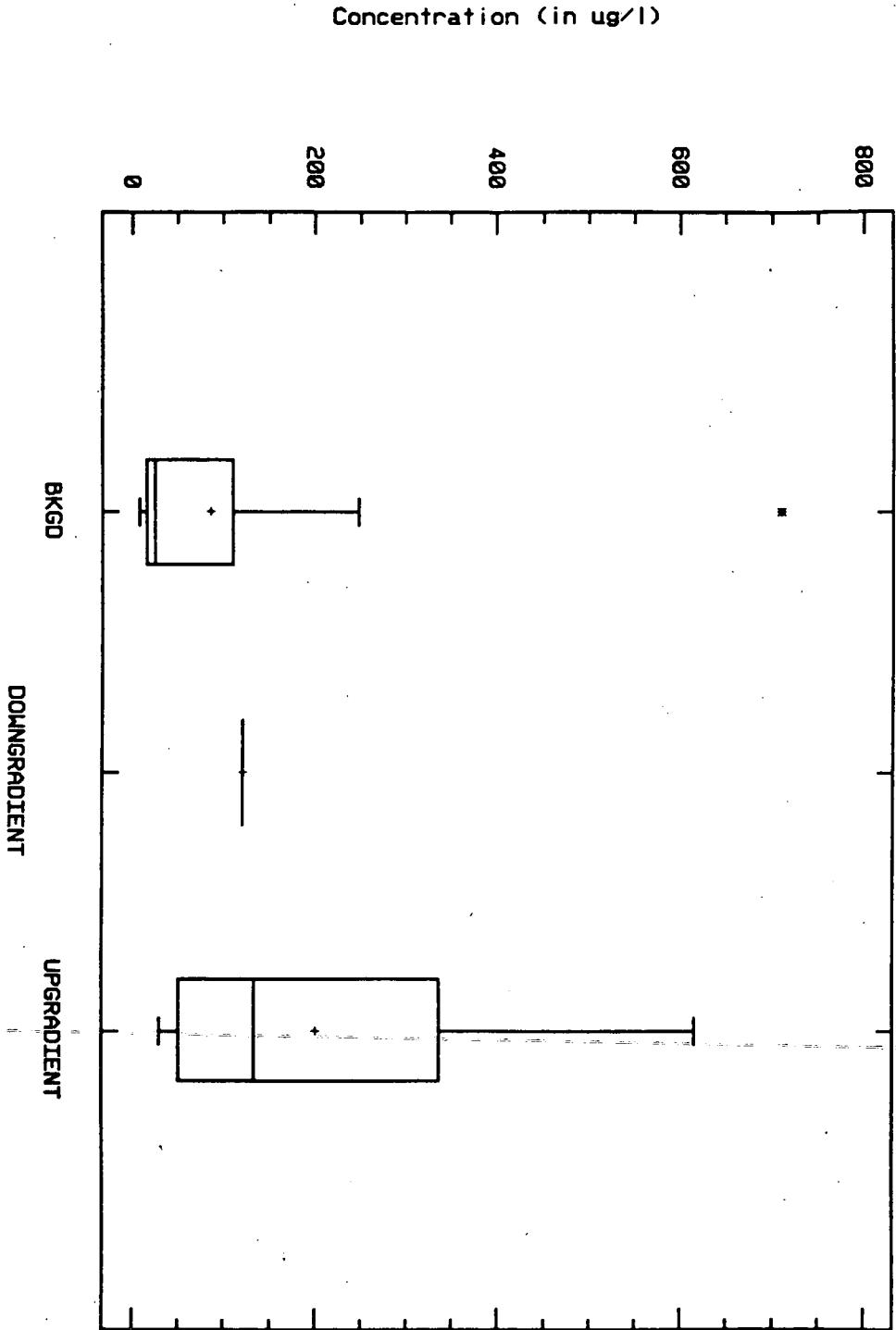


Magnesium (Total): Groundwater

Background vs. OU7 LHSU

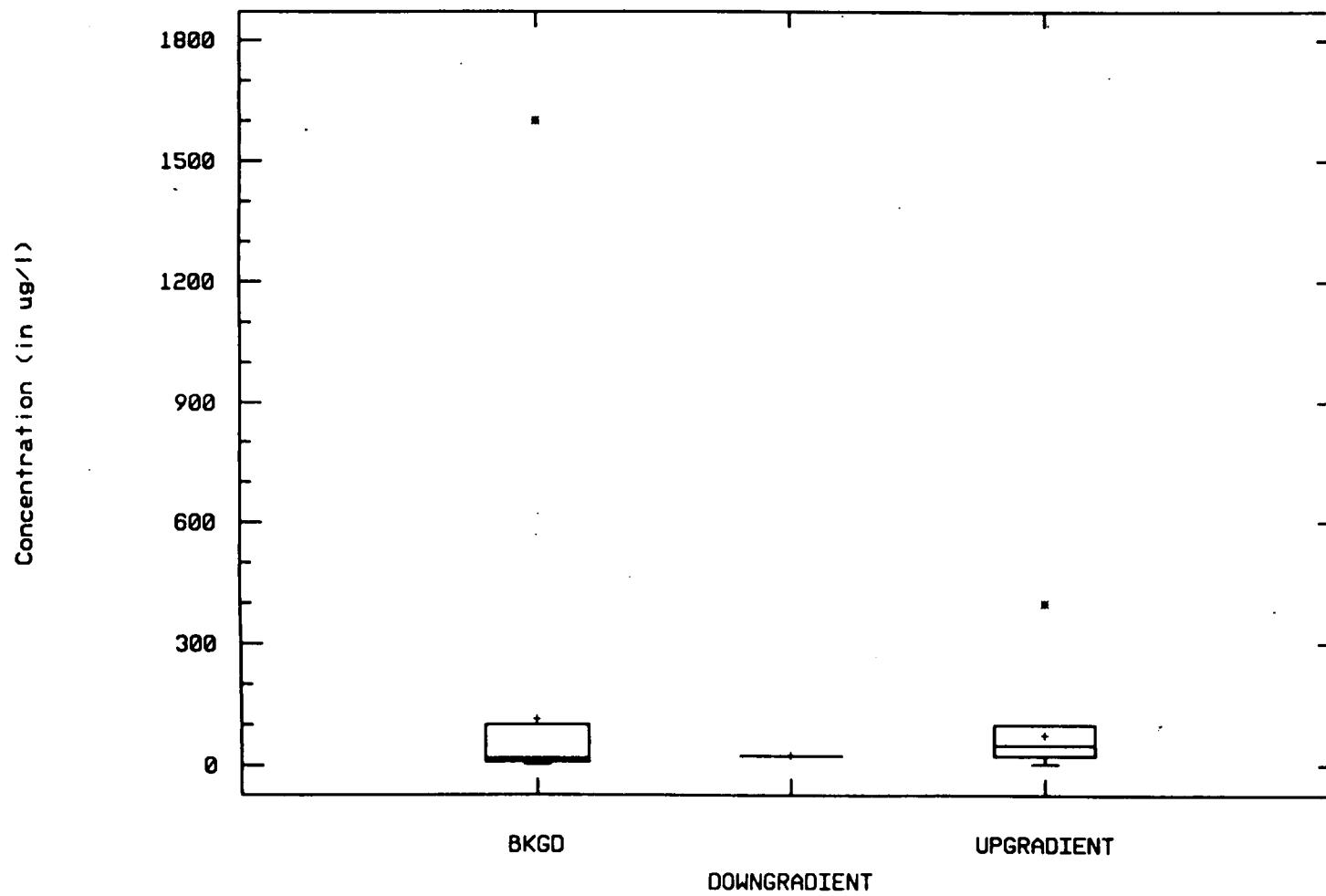


Manganese (Total): Groundwater
Background vs. OUT LHSU

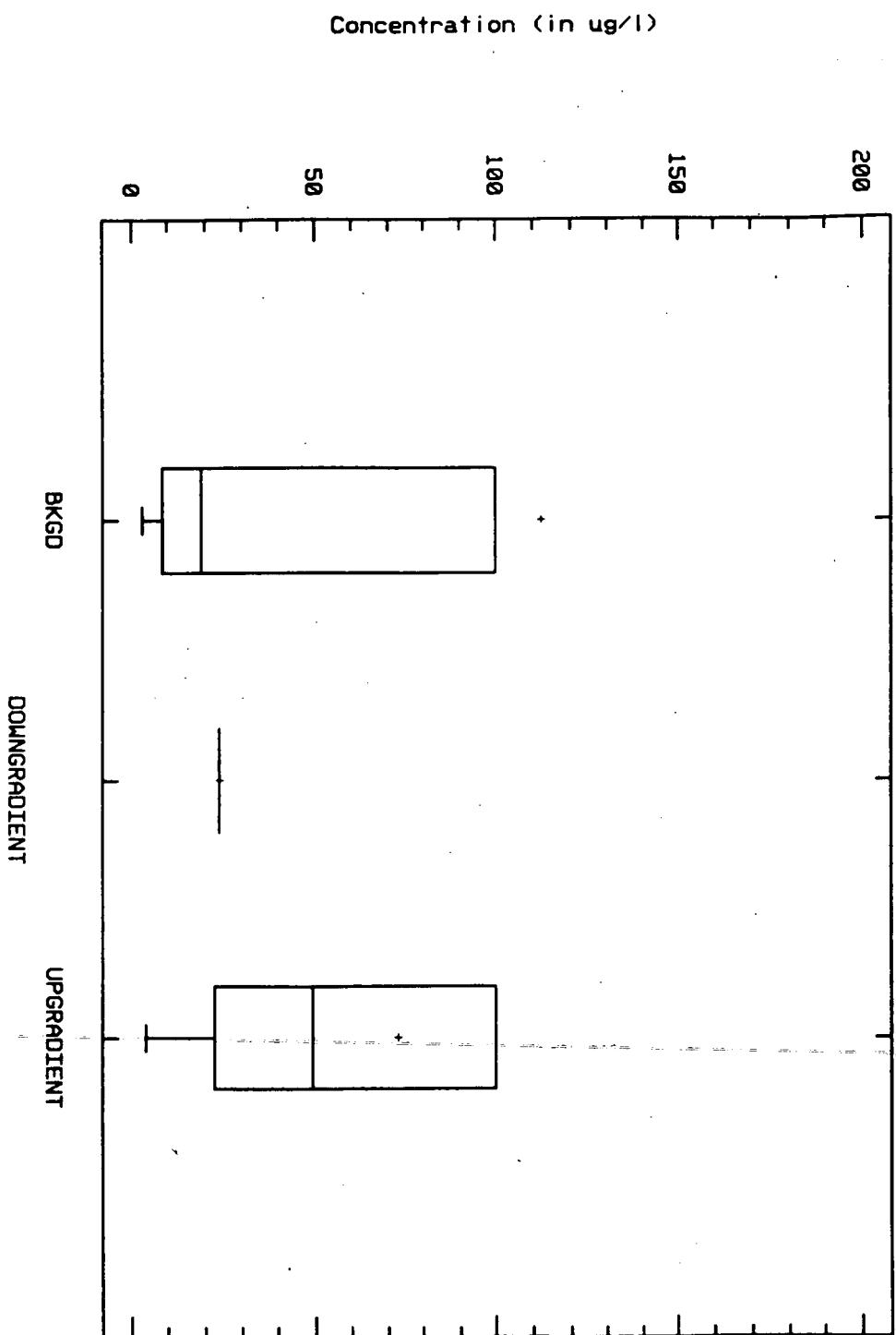


Molybdenum (Total): Groundwater

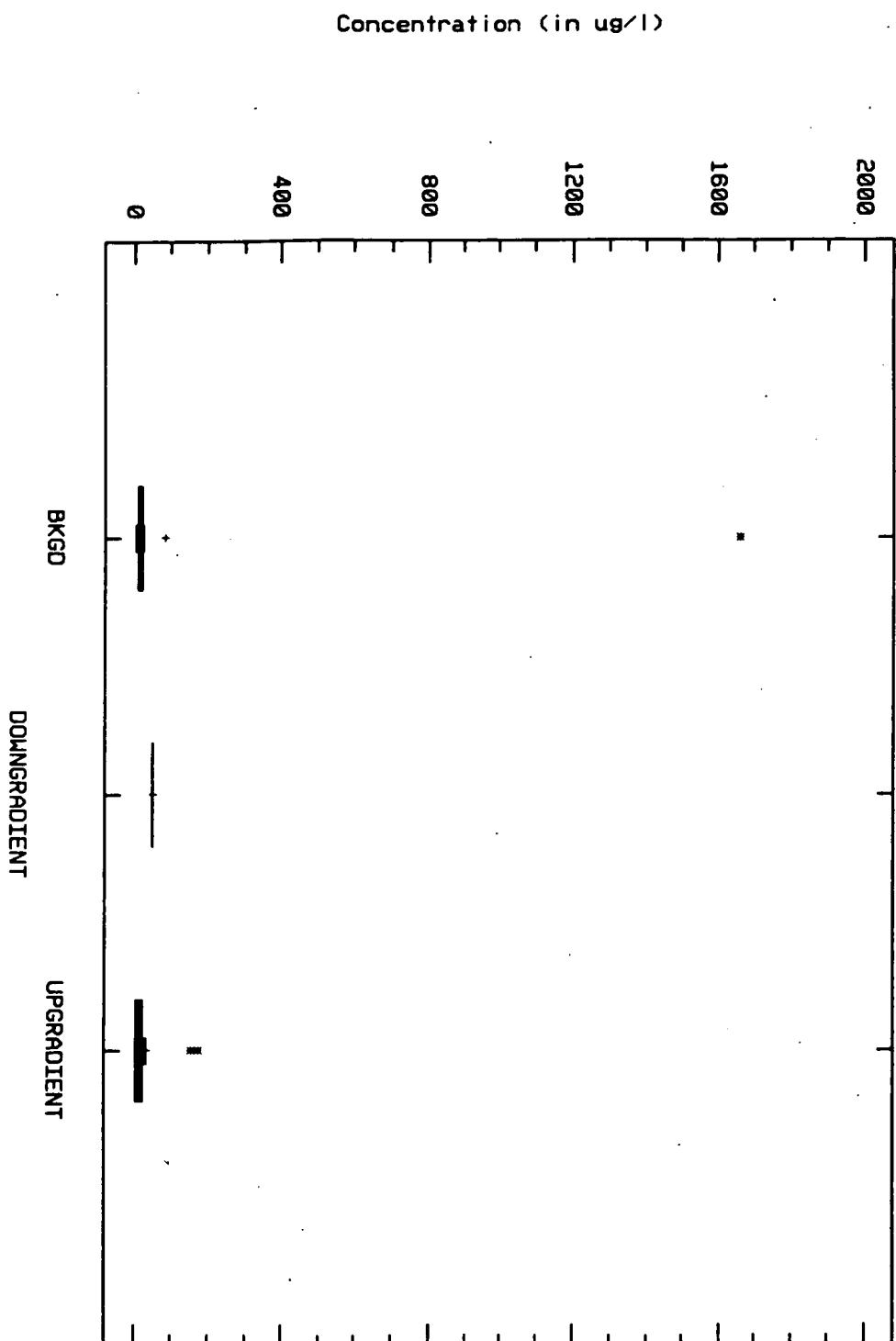
Background vs. OU7 LHSU



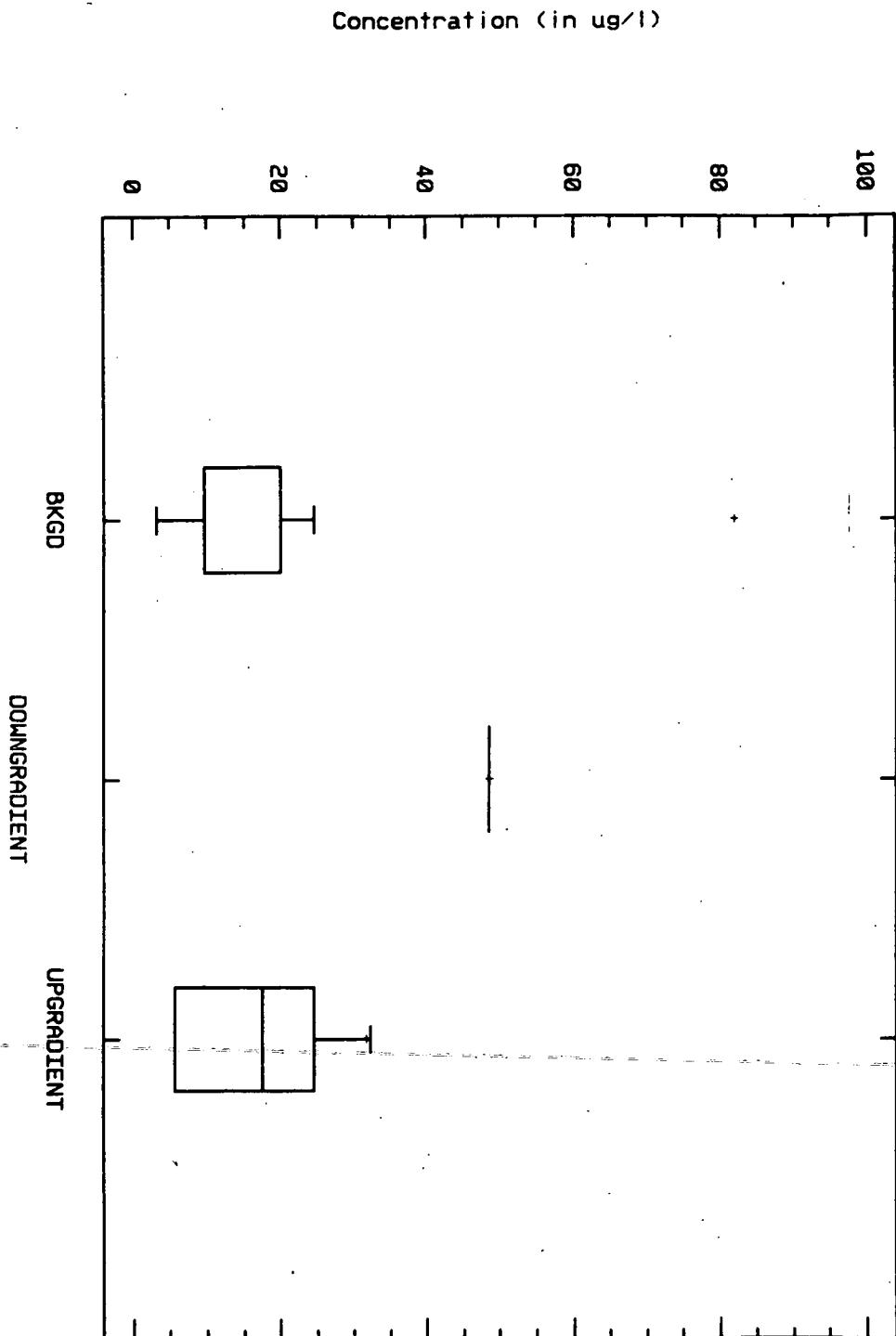
Molybdenum (Total): Groundwater
Background vs. 0U7 LHSU



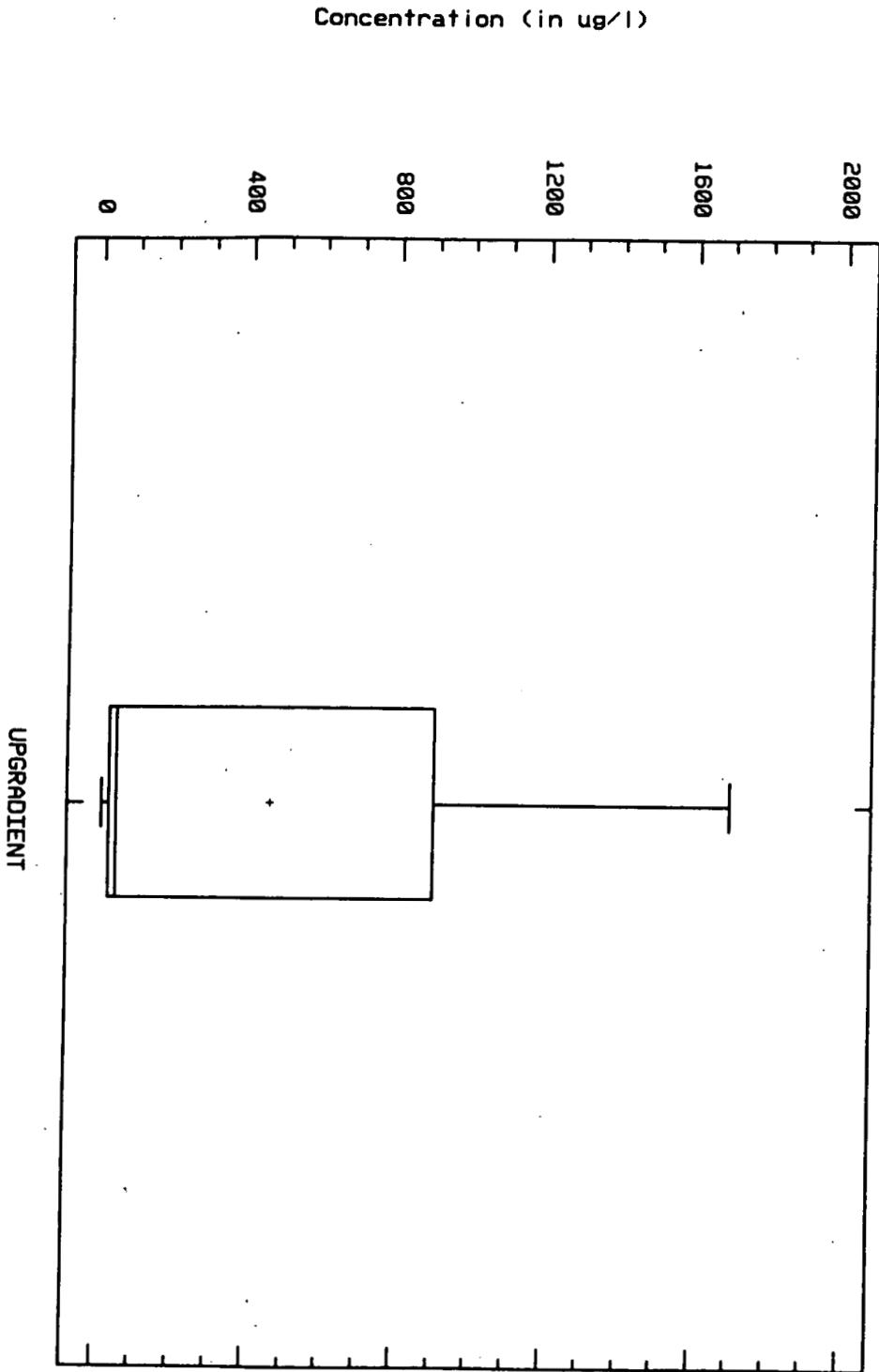
Nickel (Total): Groundwater
Background vs. 017 LHSU



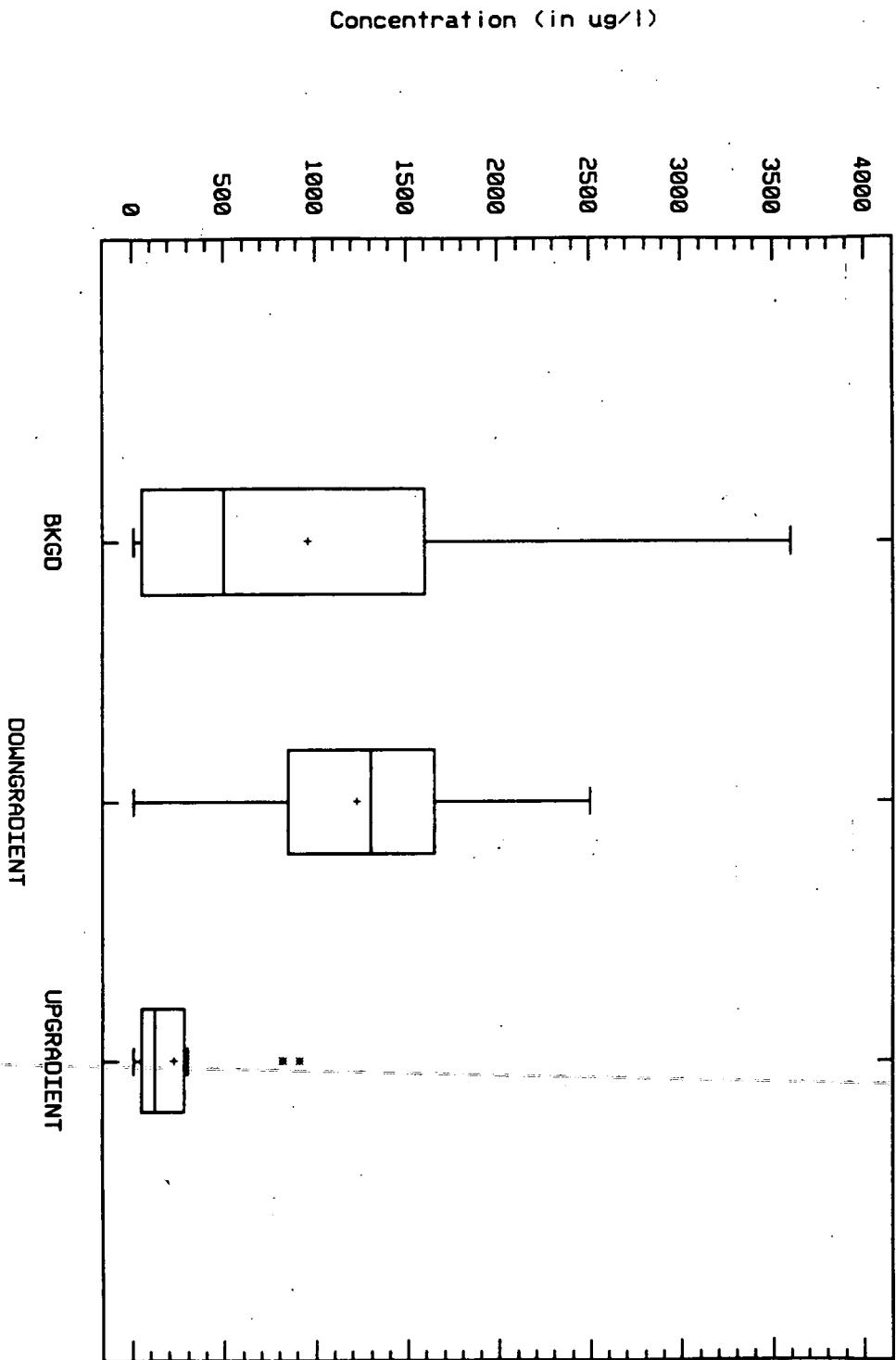
Nickel (Total): Groundwater
Background vs. OUT LHSU



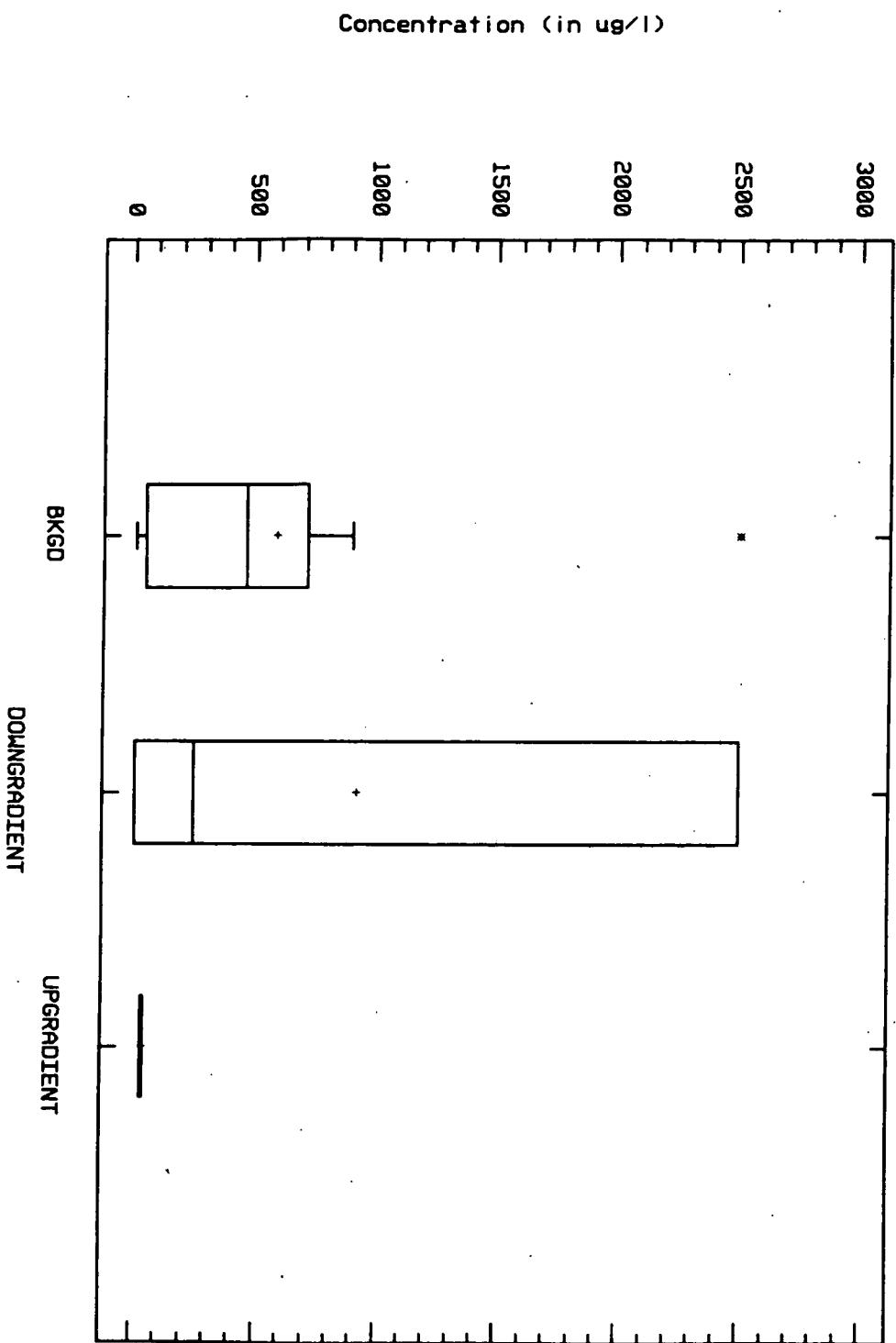
Nitrate (Total): Groundwater
Background vs. OUT LHSU



Nitrate/Nitrite (Total): Groundwater
Background vs. OUT LHSU

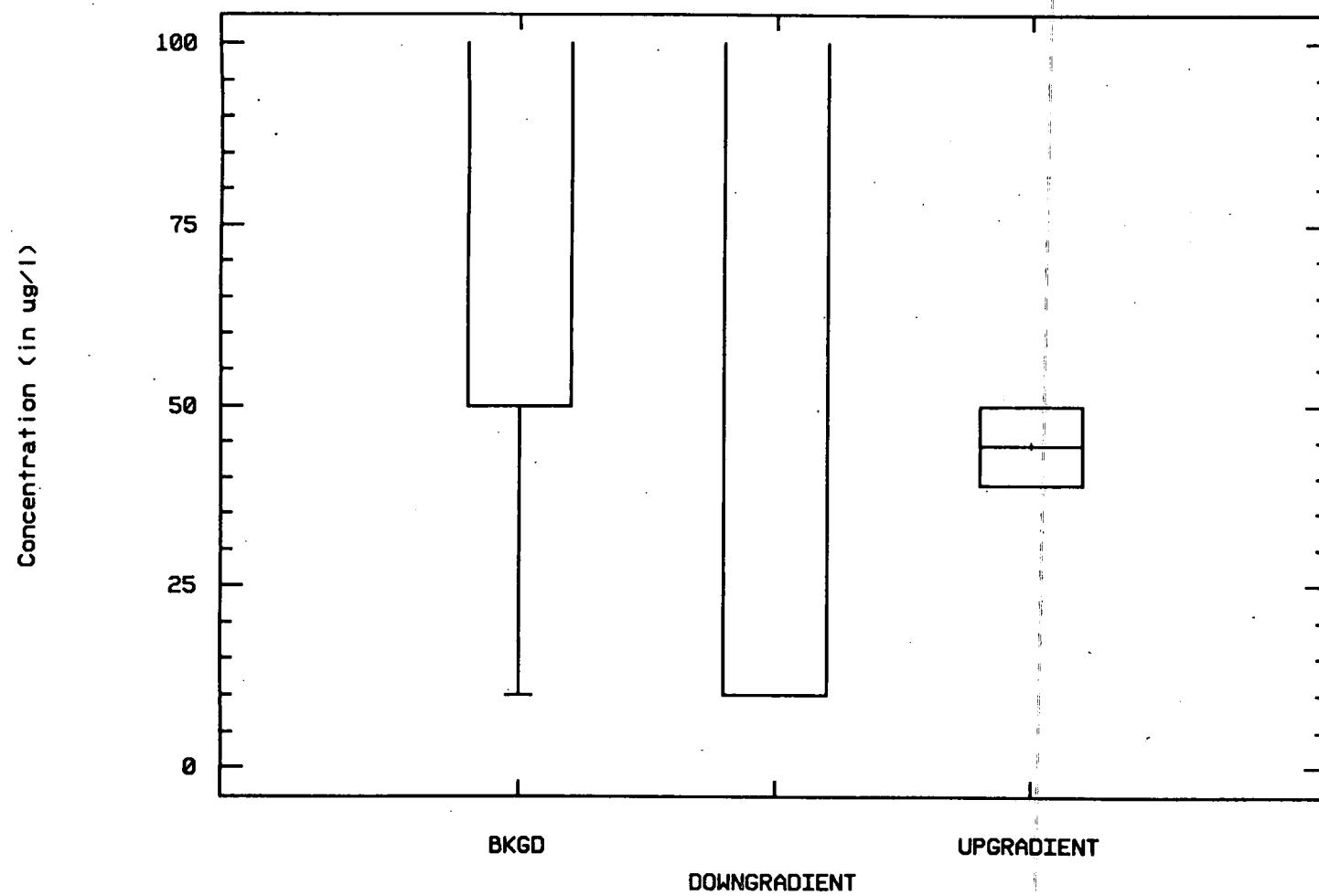


Nitrite (Total): Groundwater
Background vs. OUT LHSU

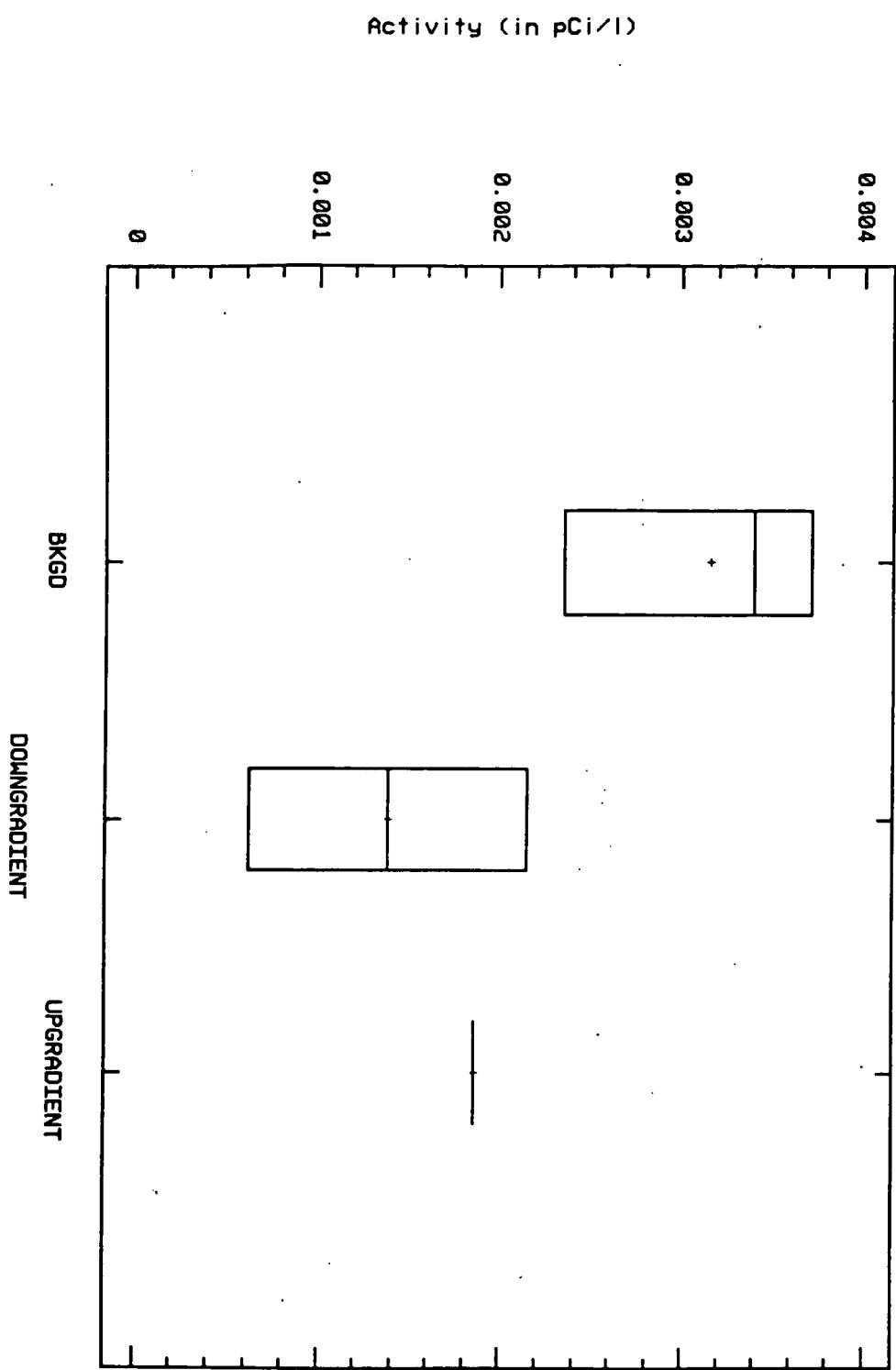


Nitrite (Total): Groundwater

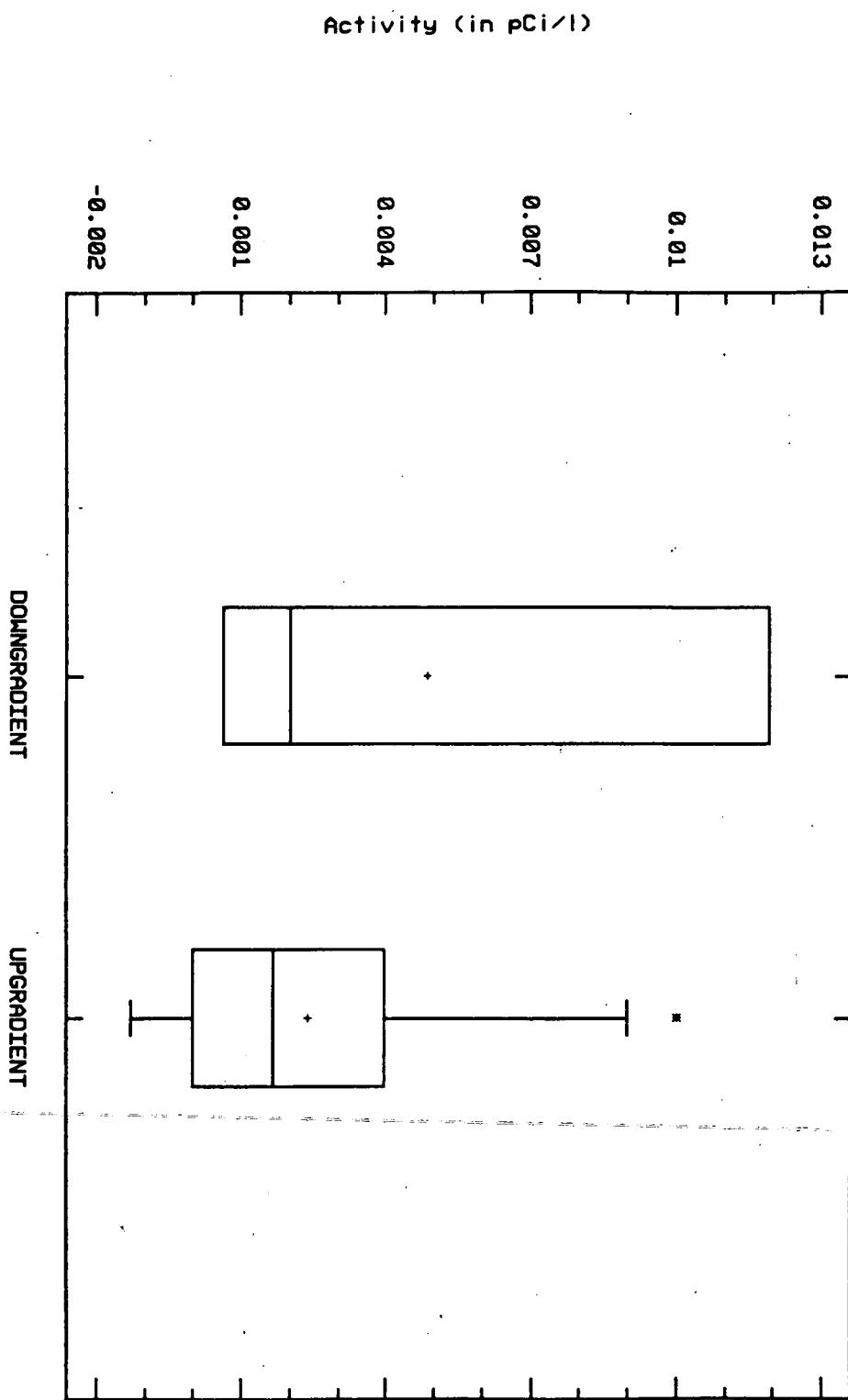
Background vs. OU7 LHSU



Plutonium-238 (Total): Groundwater
Background vs. out LHSU

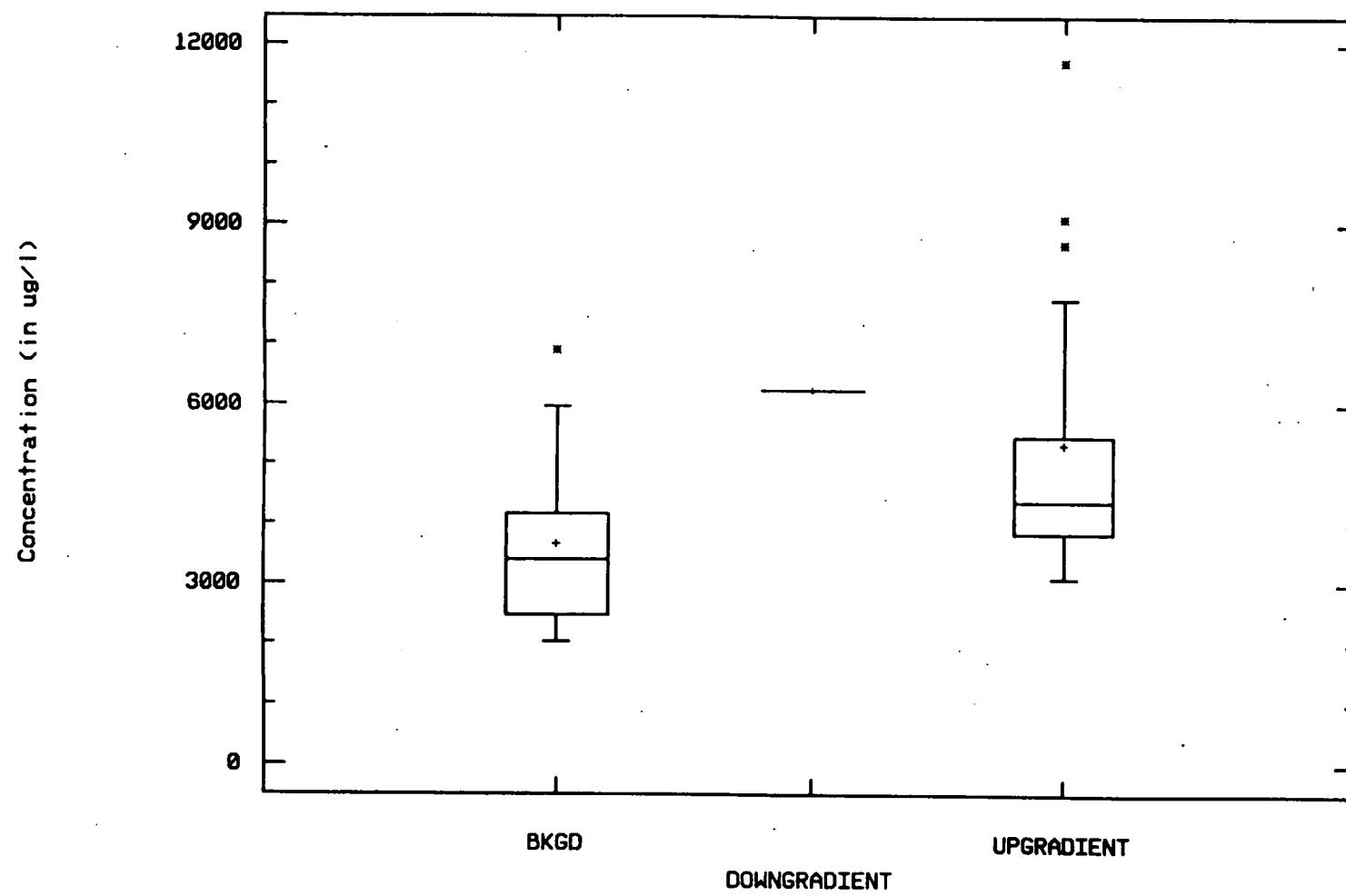


Plutonium-239/240 (Total): Groundwater
Background vs. OUT LHSU



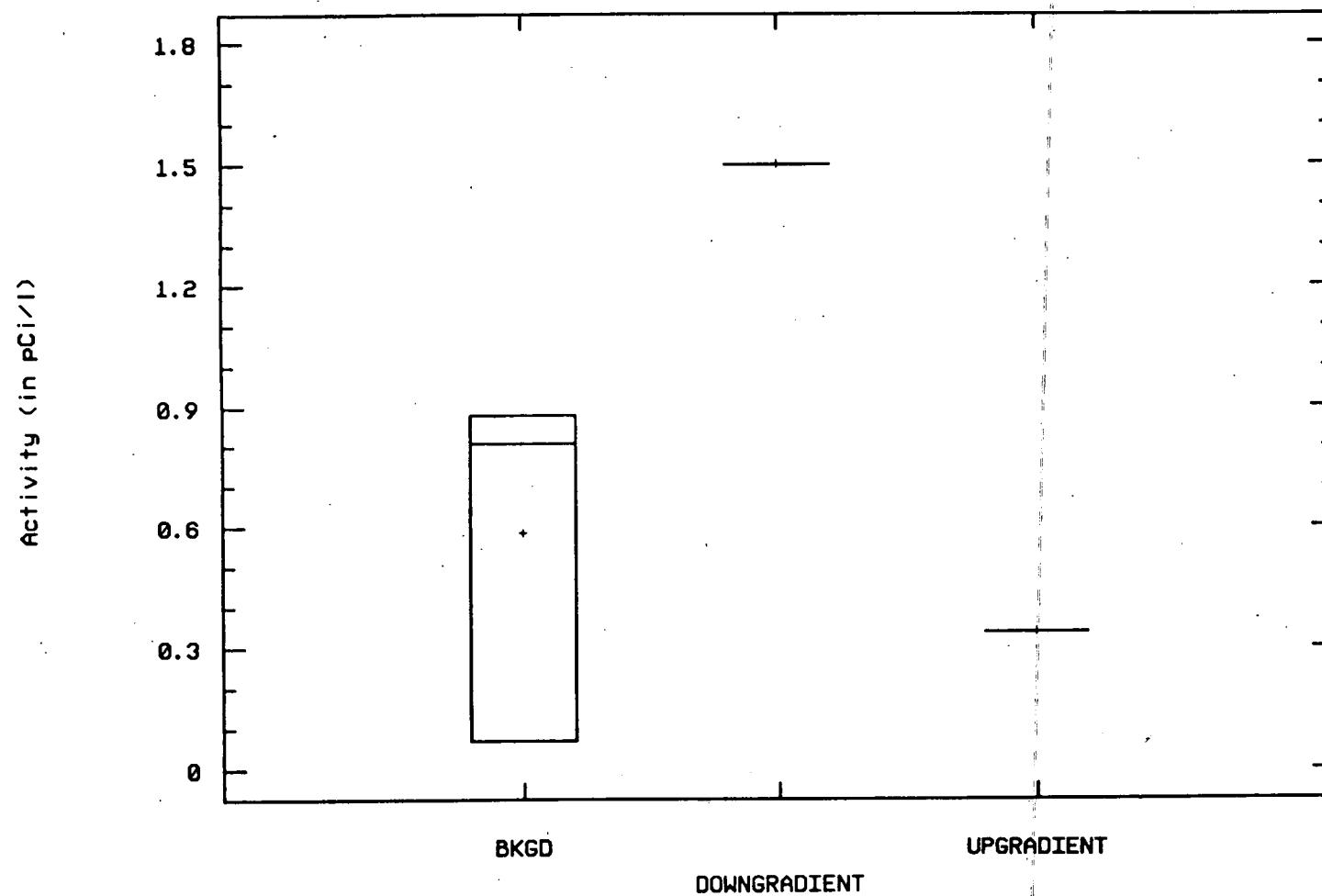
Potassium (Total): Groundwater

Background vs. OU7 LHSU

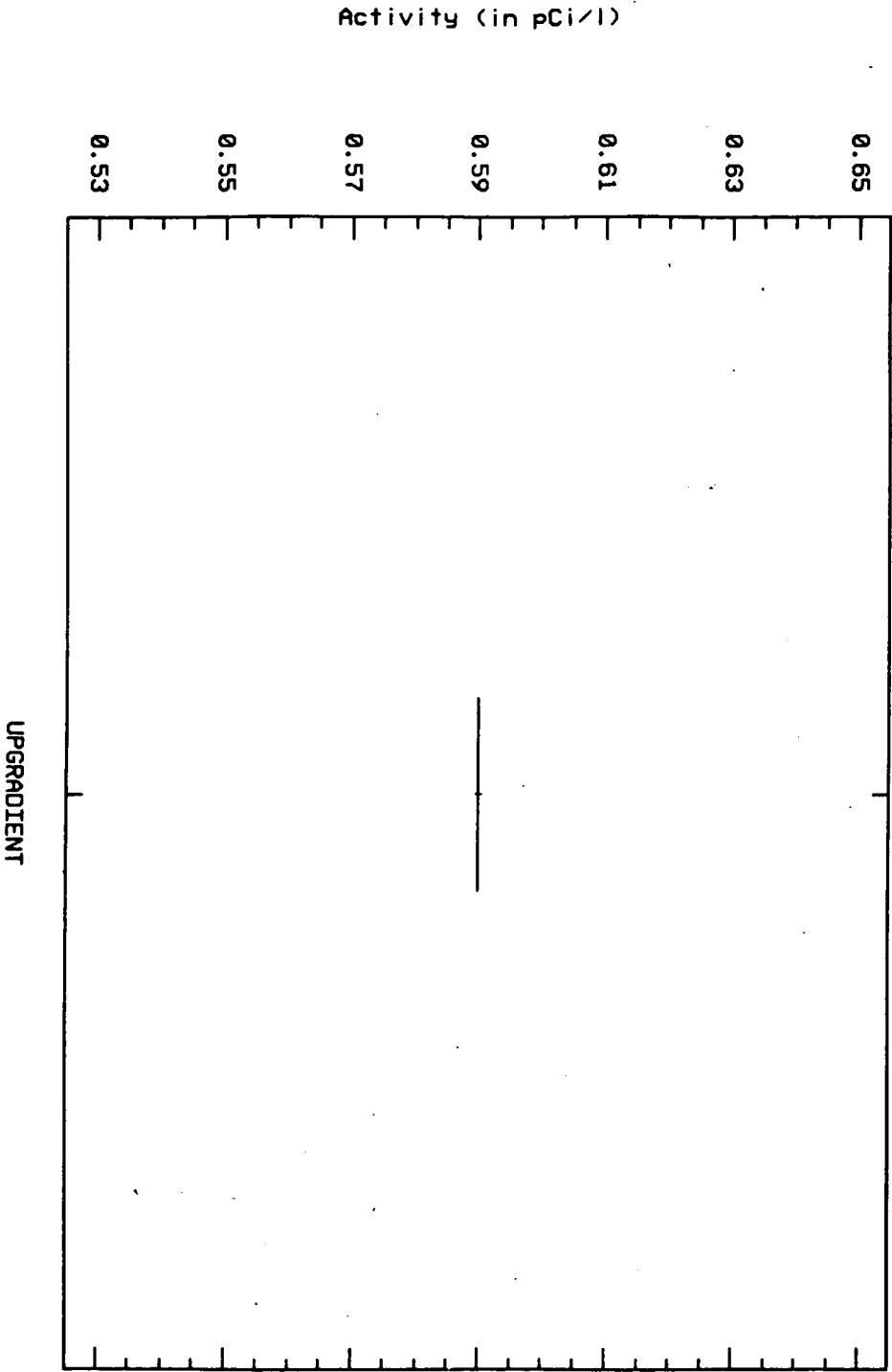


Radium-226 (Total): Groundwater

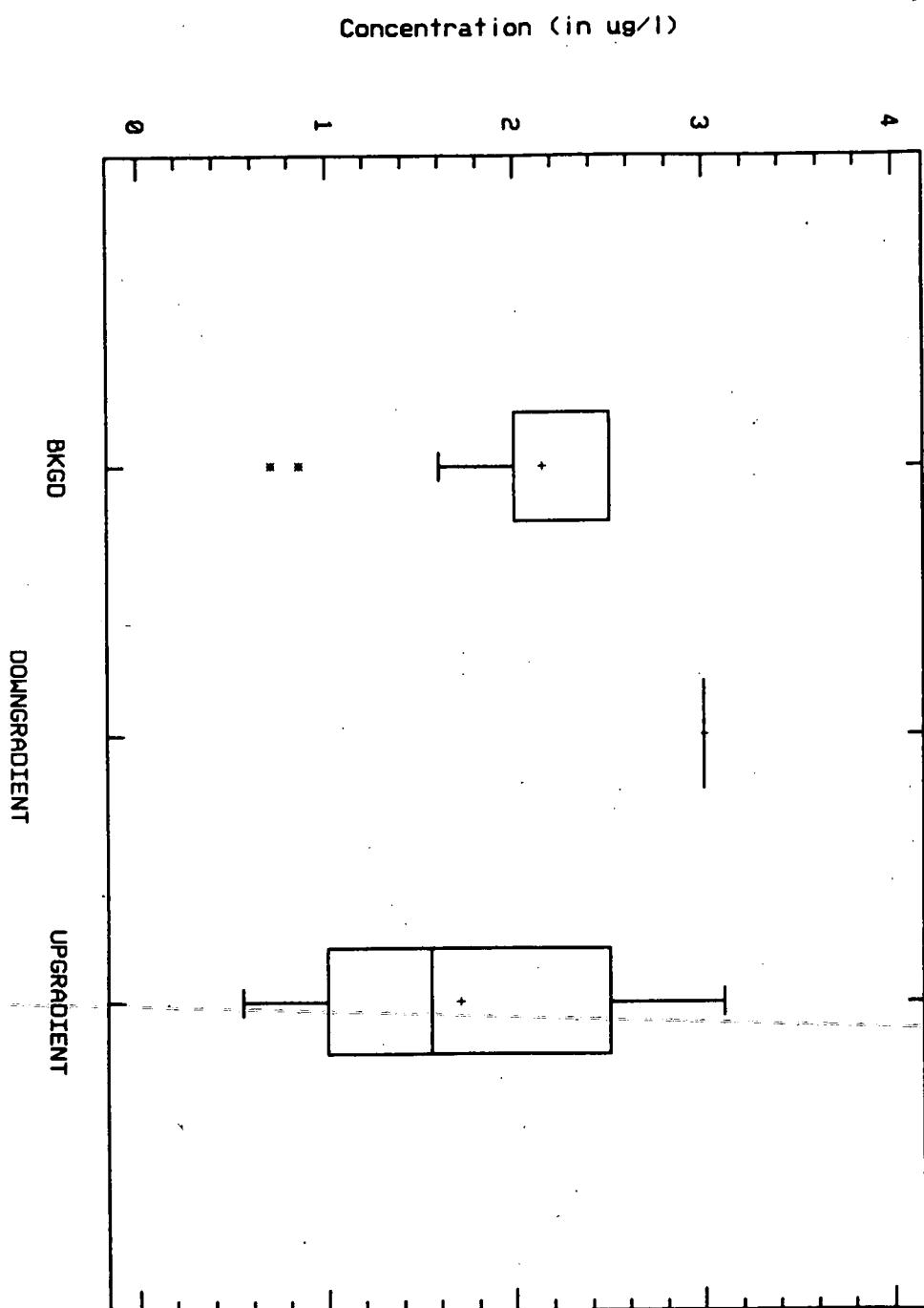
Background vs. OU7 LHSU

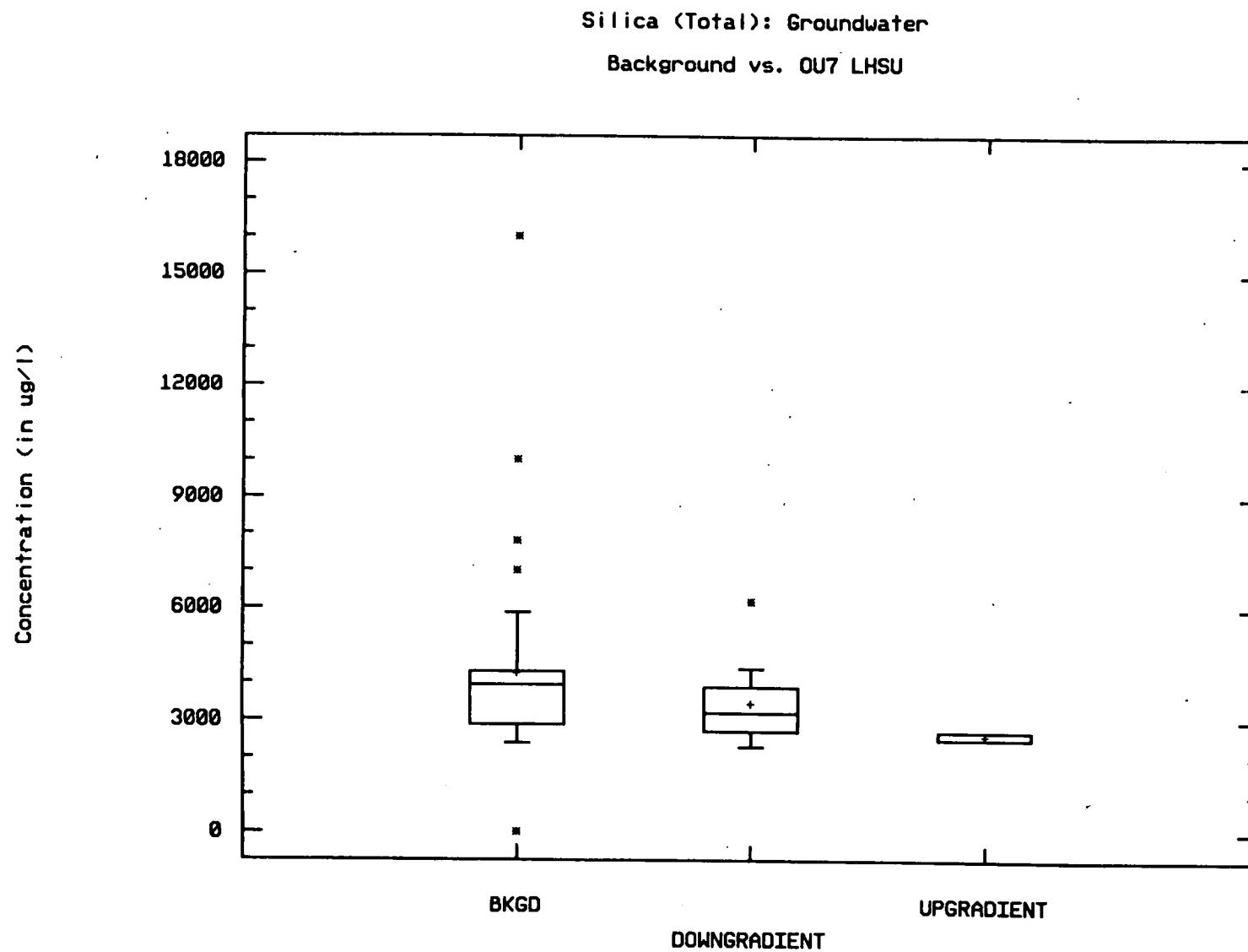


Radium-228 (Total): Groundwater
Background vs. 017 LHSU



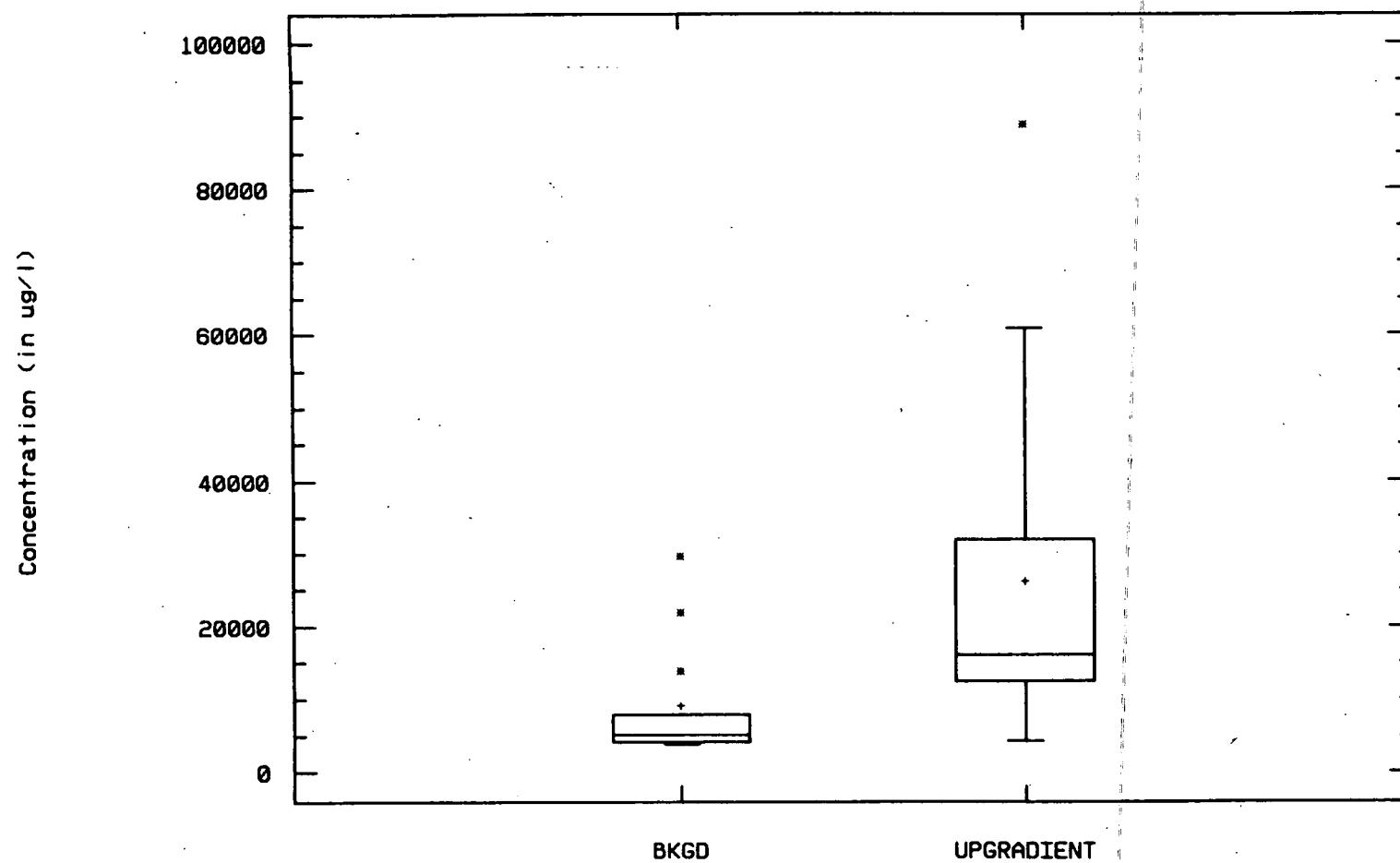
Selenium (Total): Groundwater
Background vs. OUT LHSU



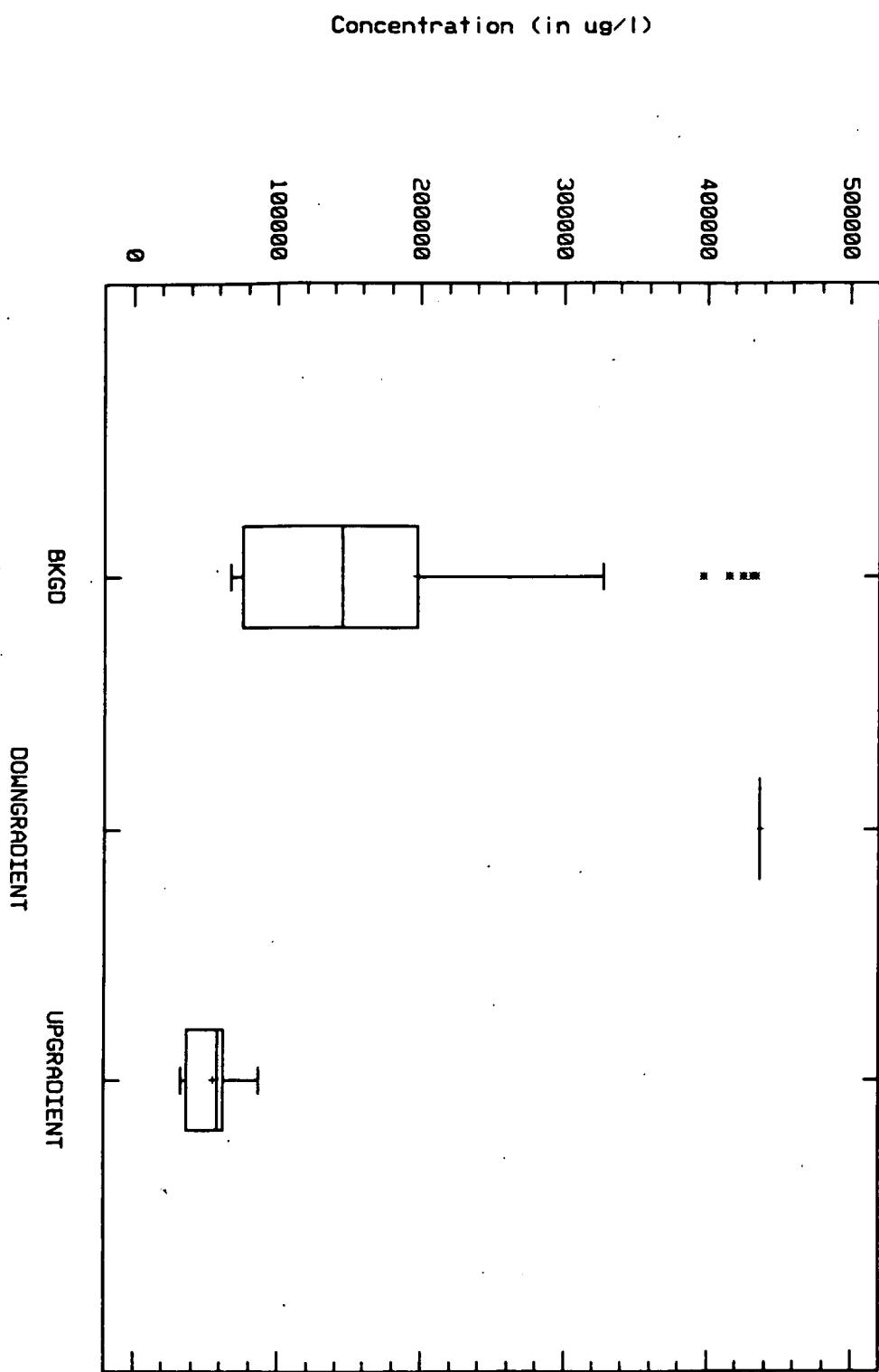


Silicon (Total): Groundwater

Background vs. OU7 LHSU

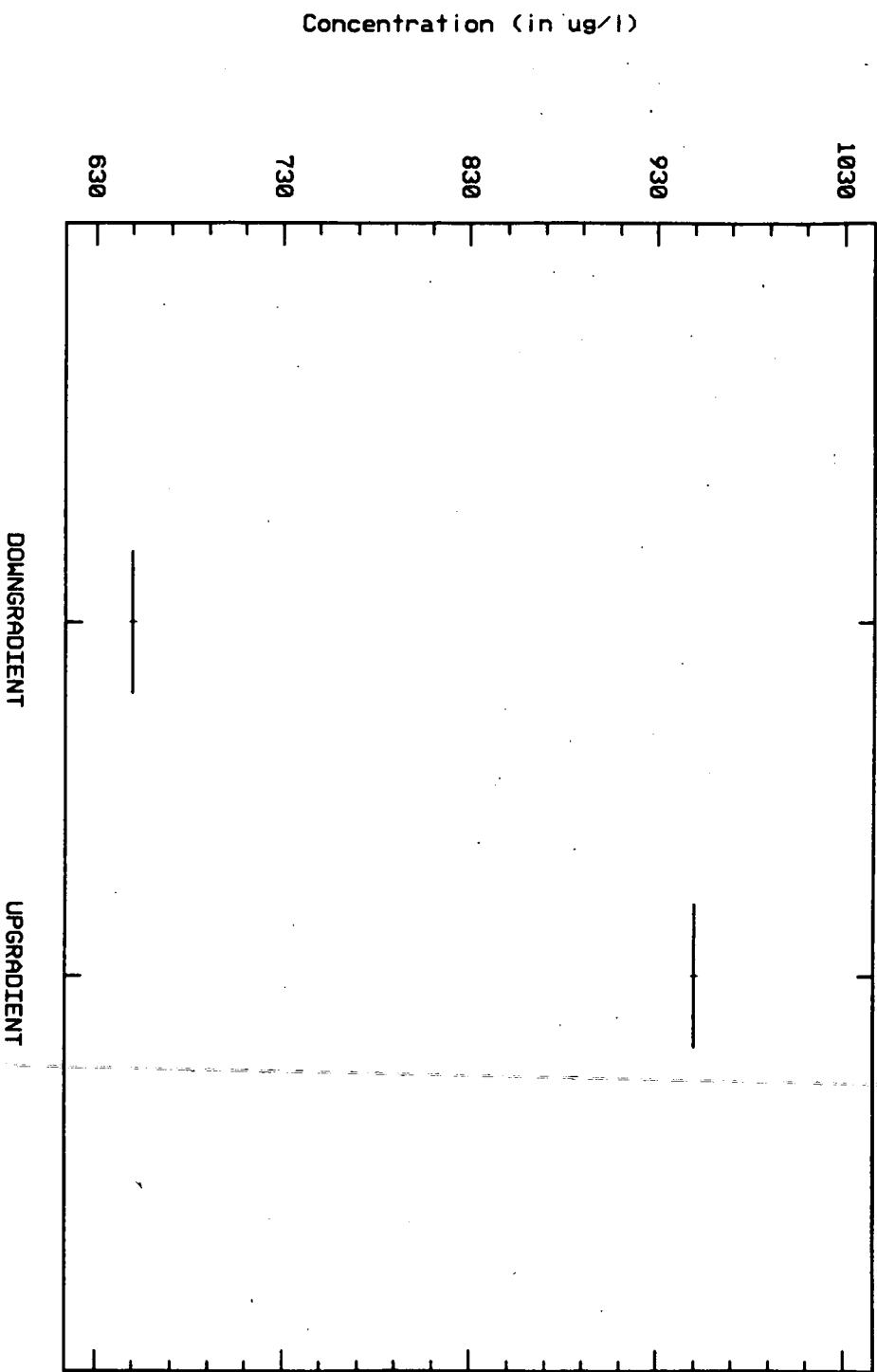


Sodium (Total): Groundwater
Background vs. 0U7 LHSU



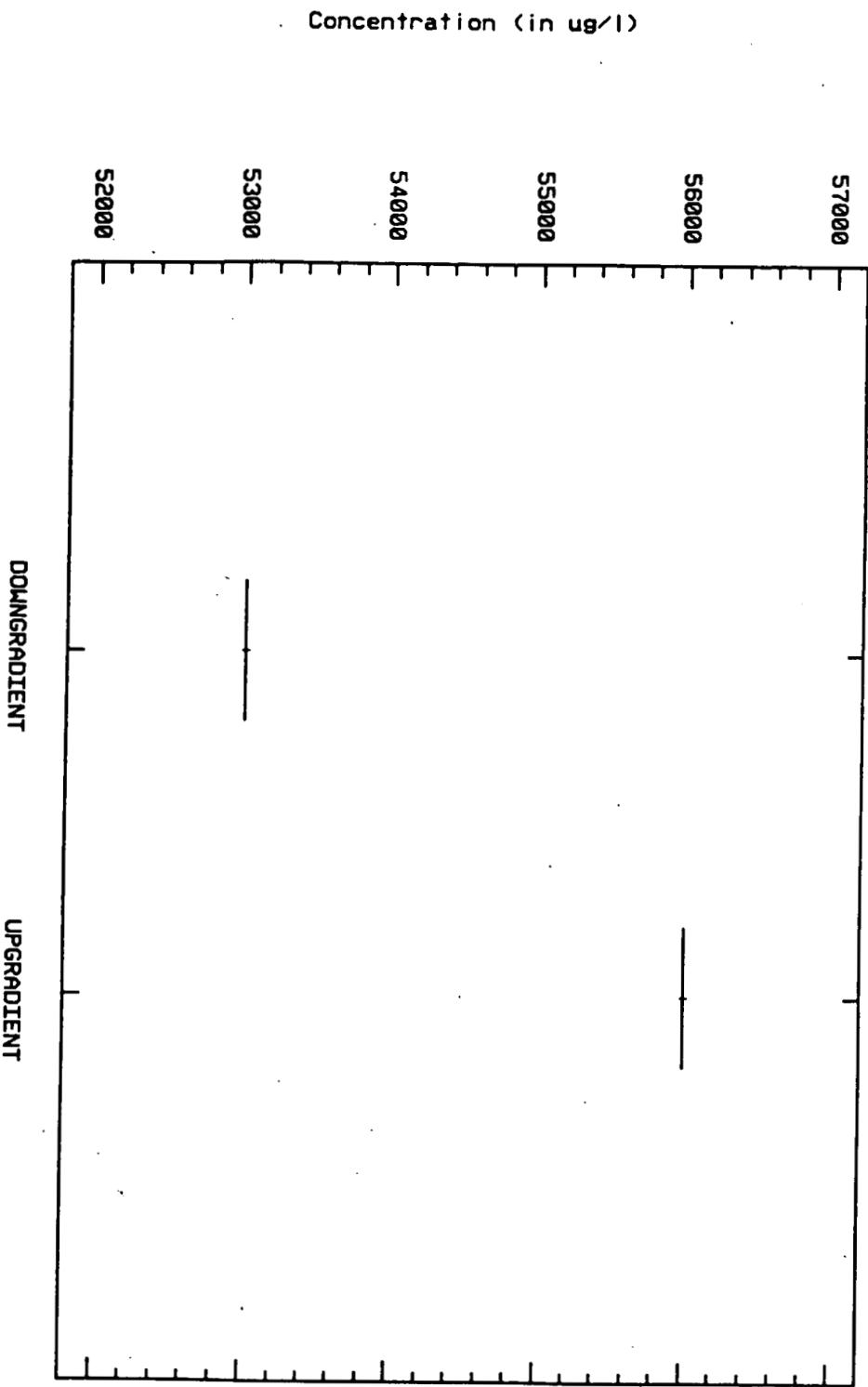
Sodium Fluoride (Total): Groundwater

Background vs. 017 LHSU

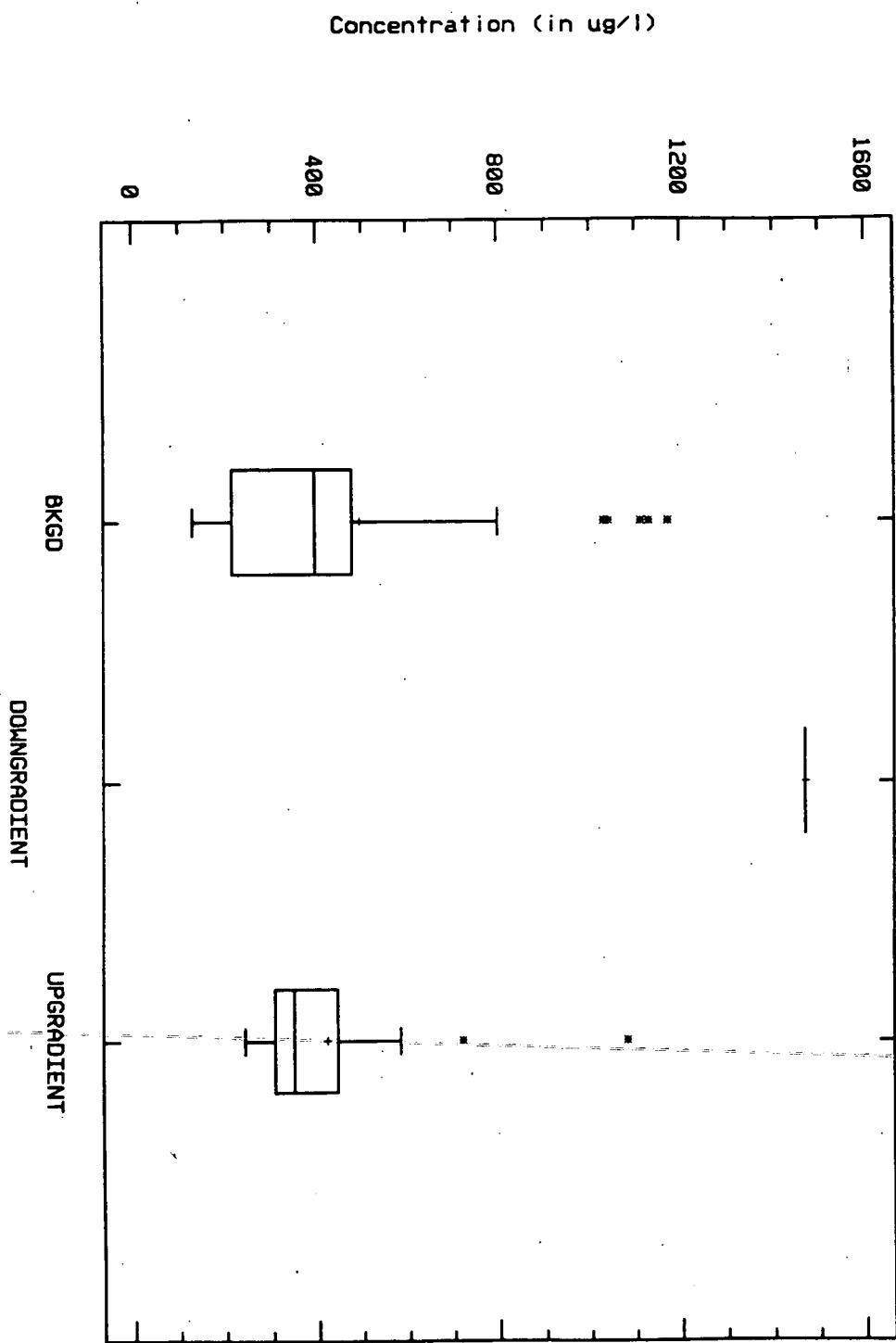


Sodium Sulfate (Total): Groundwater

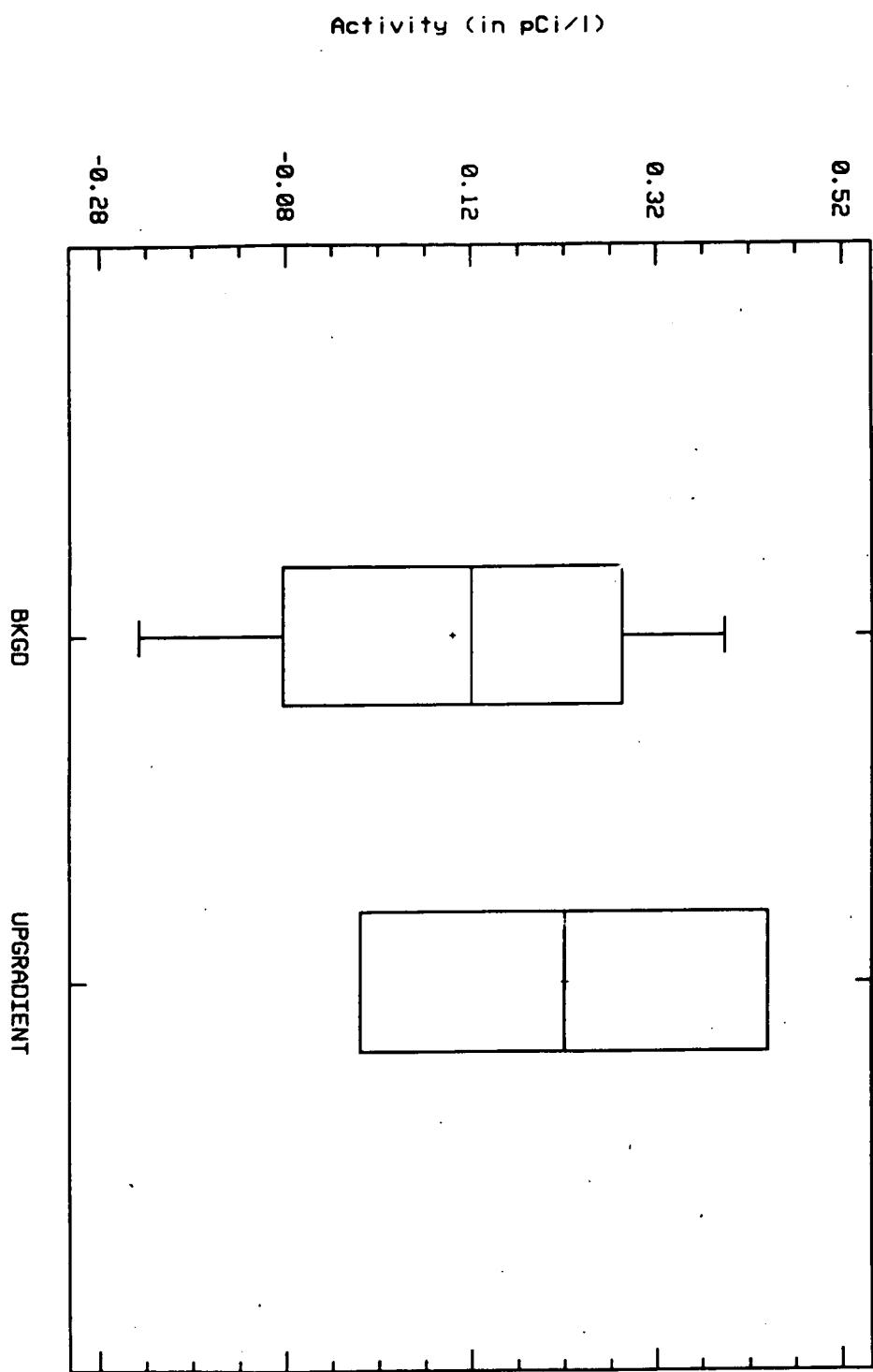
Background vs. OUT LHSU



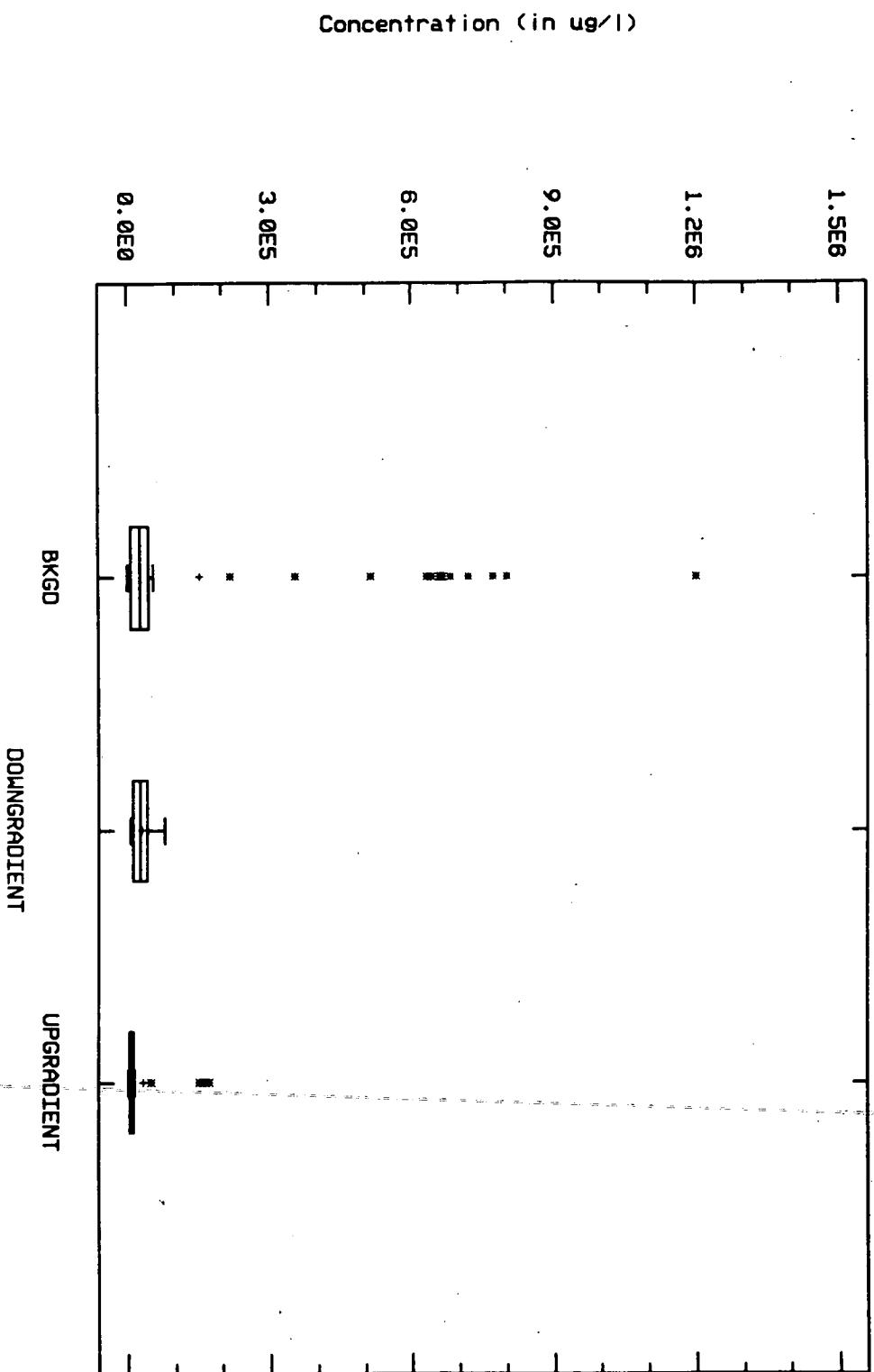
Strontium (Total): Groundwater
Background vs. 0U7 LHSU



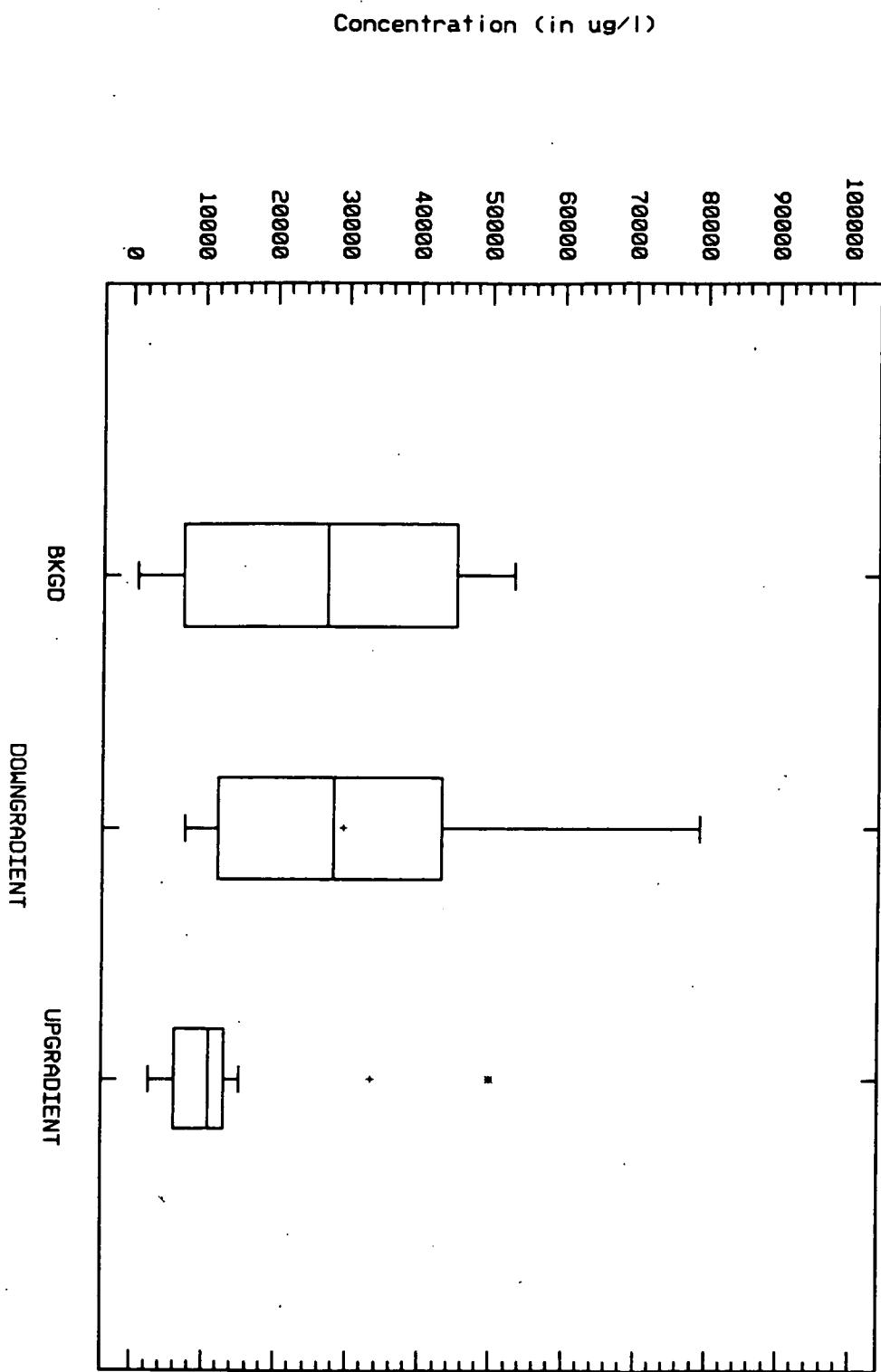
Strontium-89,90 (Total): Groundwater
Background vs. OUT LHSU



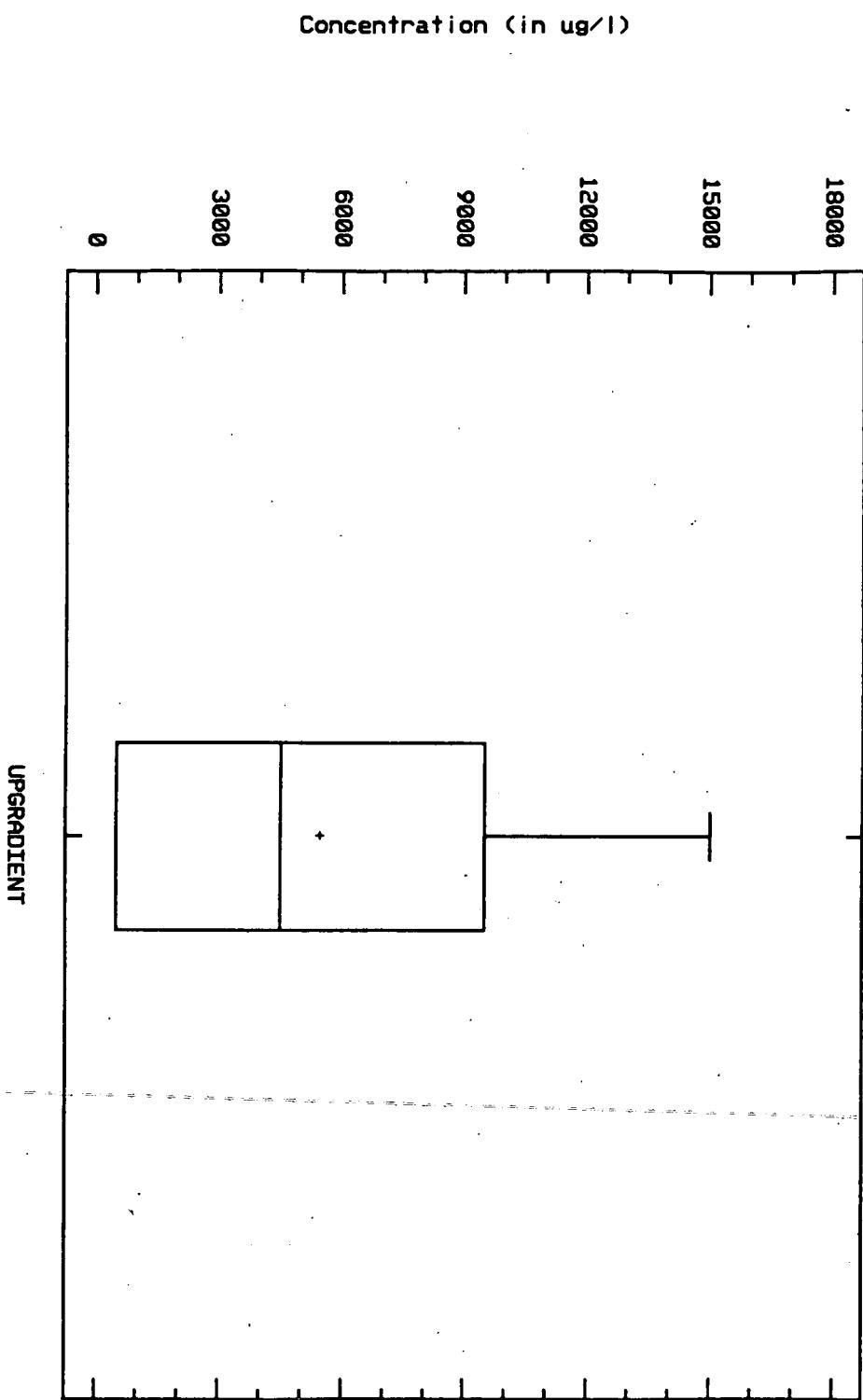
Sulfate (Total): Groundwater
Background vs. OUT LHSU



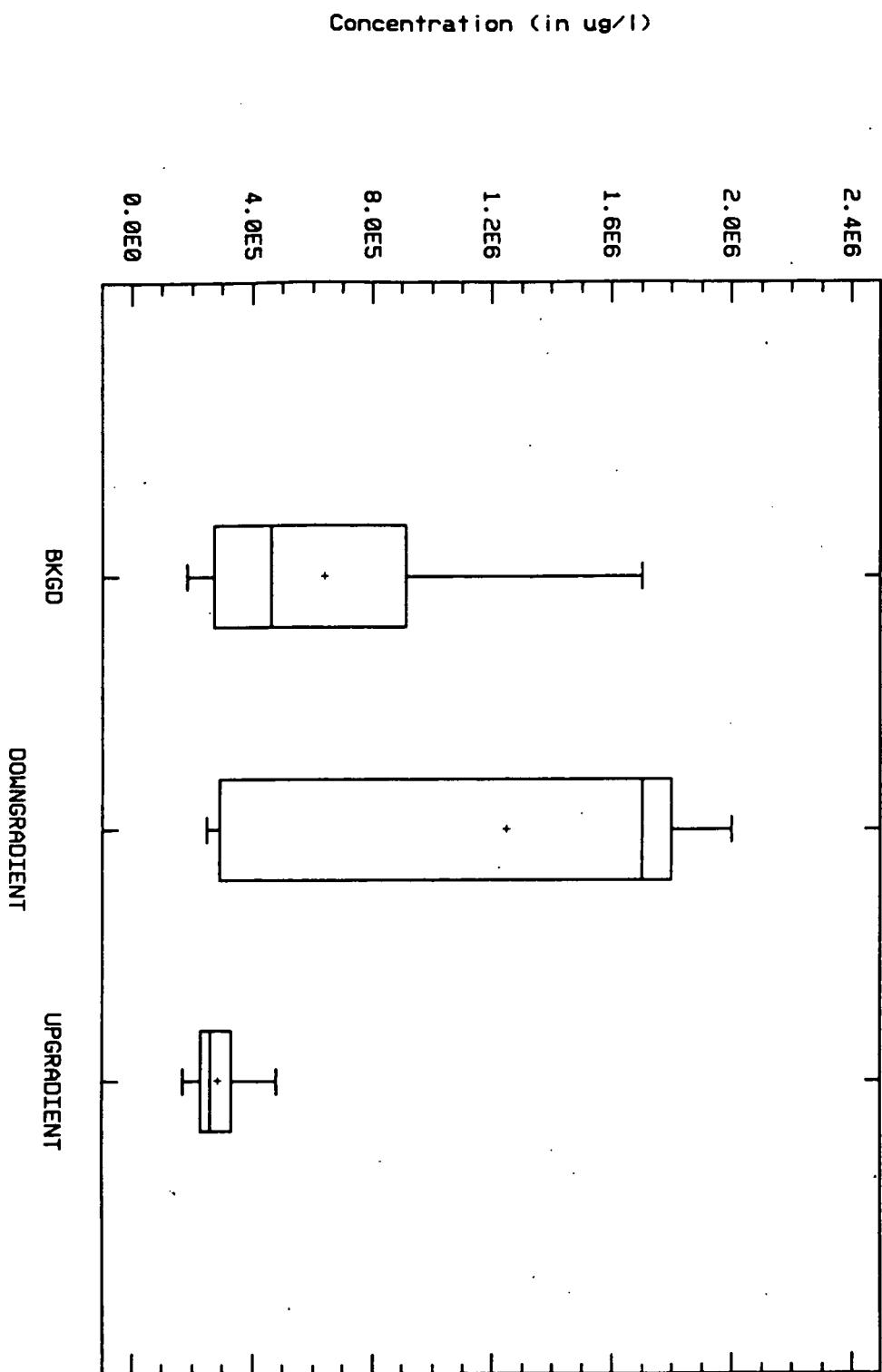
Sulfate (Total): Groundwater
Background vs. OUT LHSU



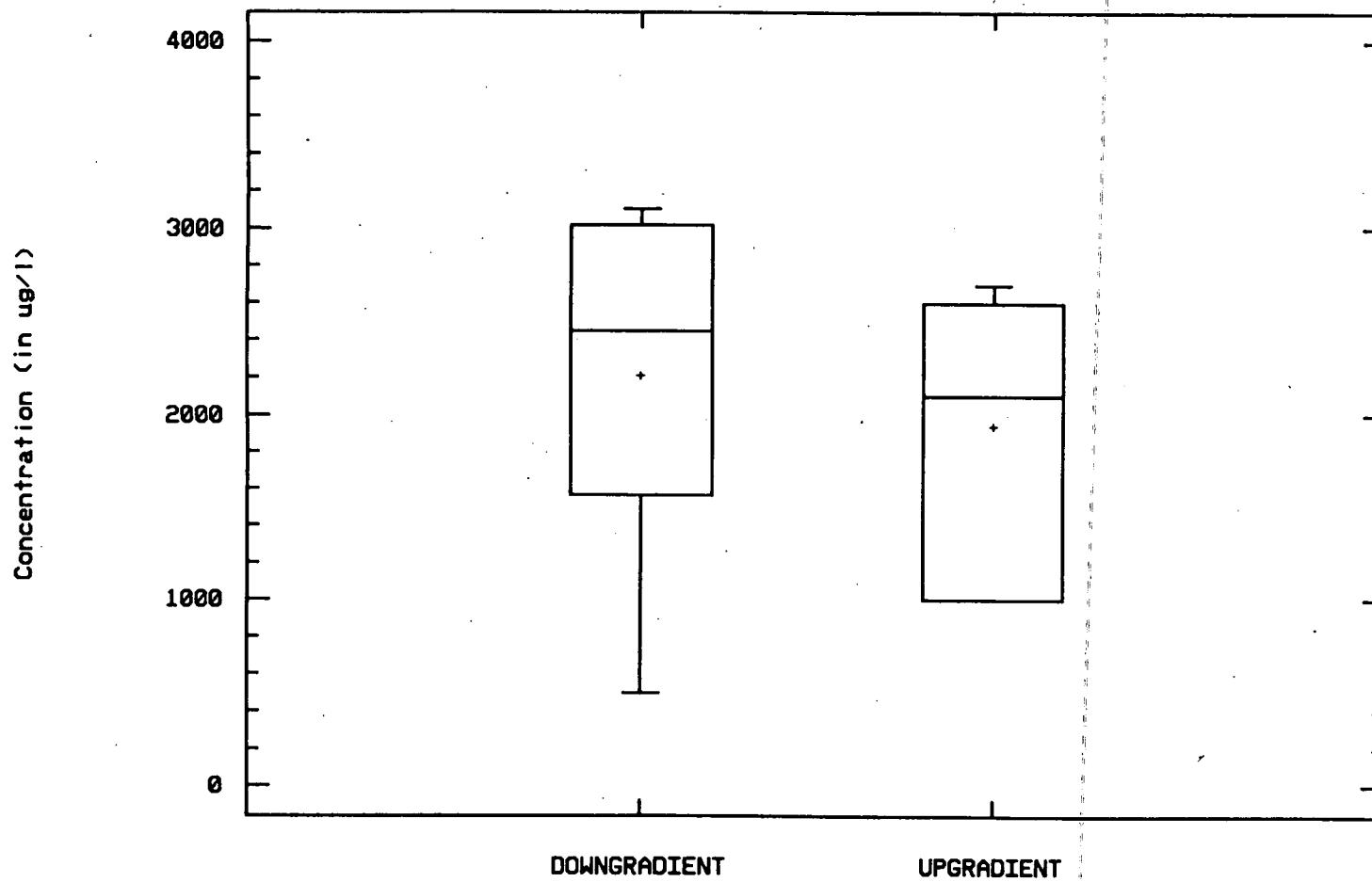
Sulfide (Total): Groundwater
Background vs. OU7 LHSU



Total Dissolved Solids: Groundwater
Background vs. OUT LHSU

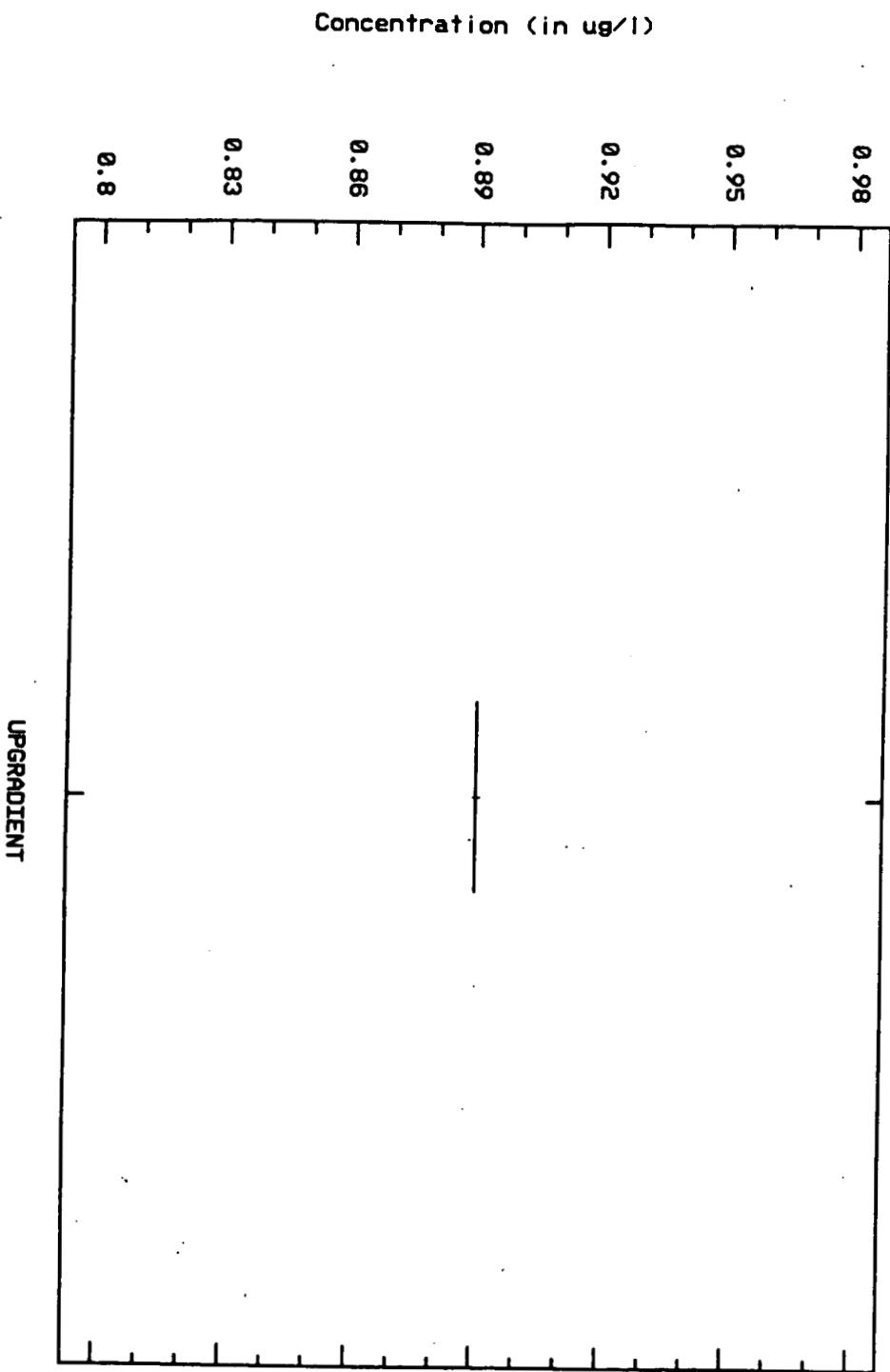


Total Organic Carbon: Groundwater
Background vs. OU7 LHSU

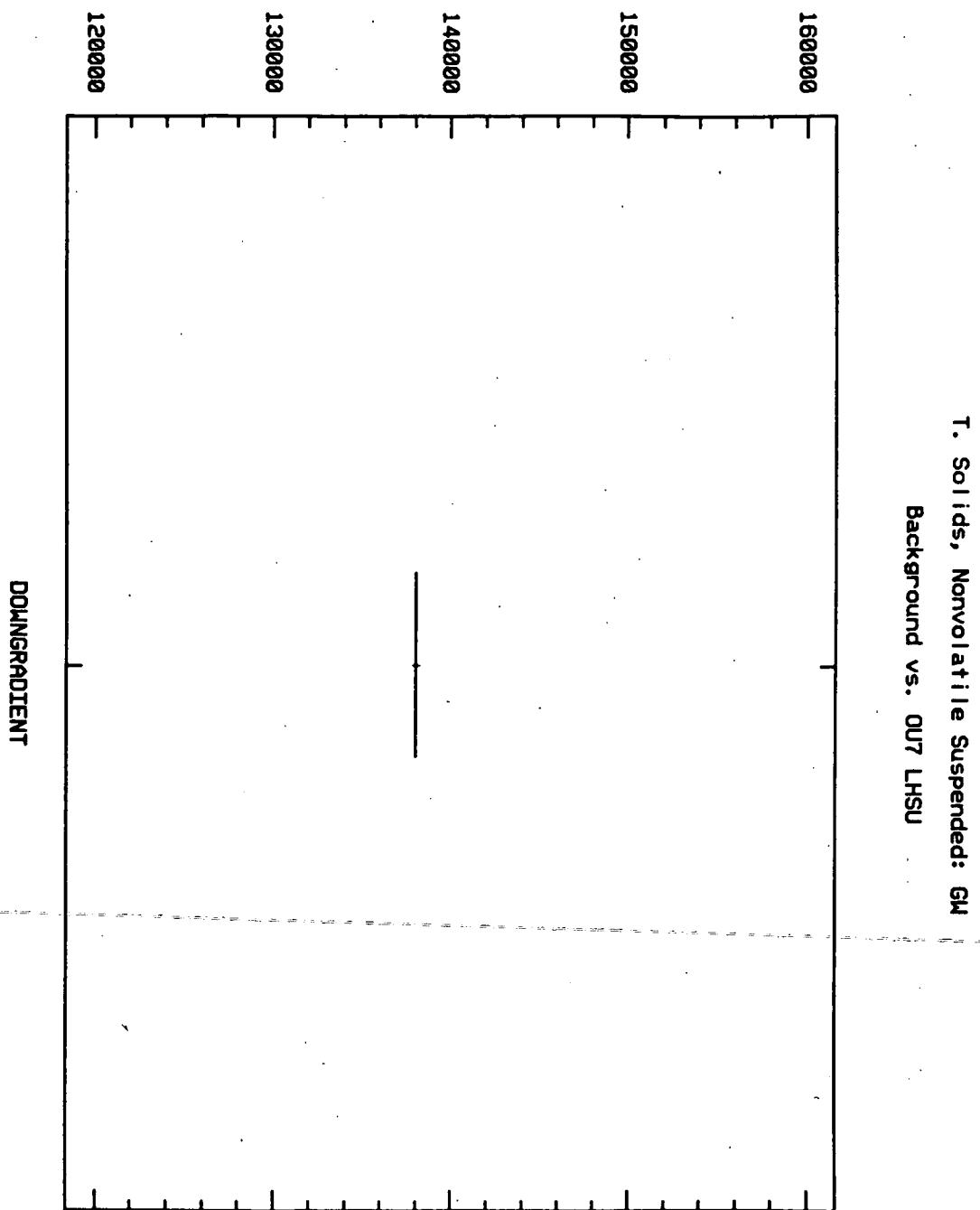


Total Radiocesium: Groundwater

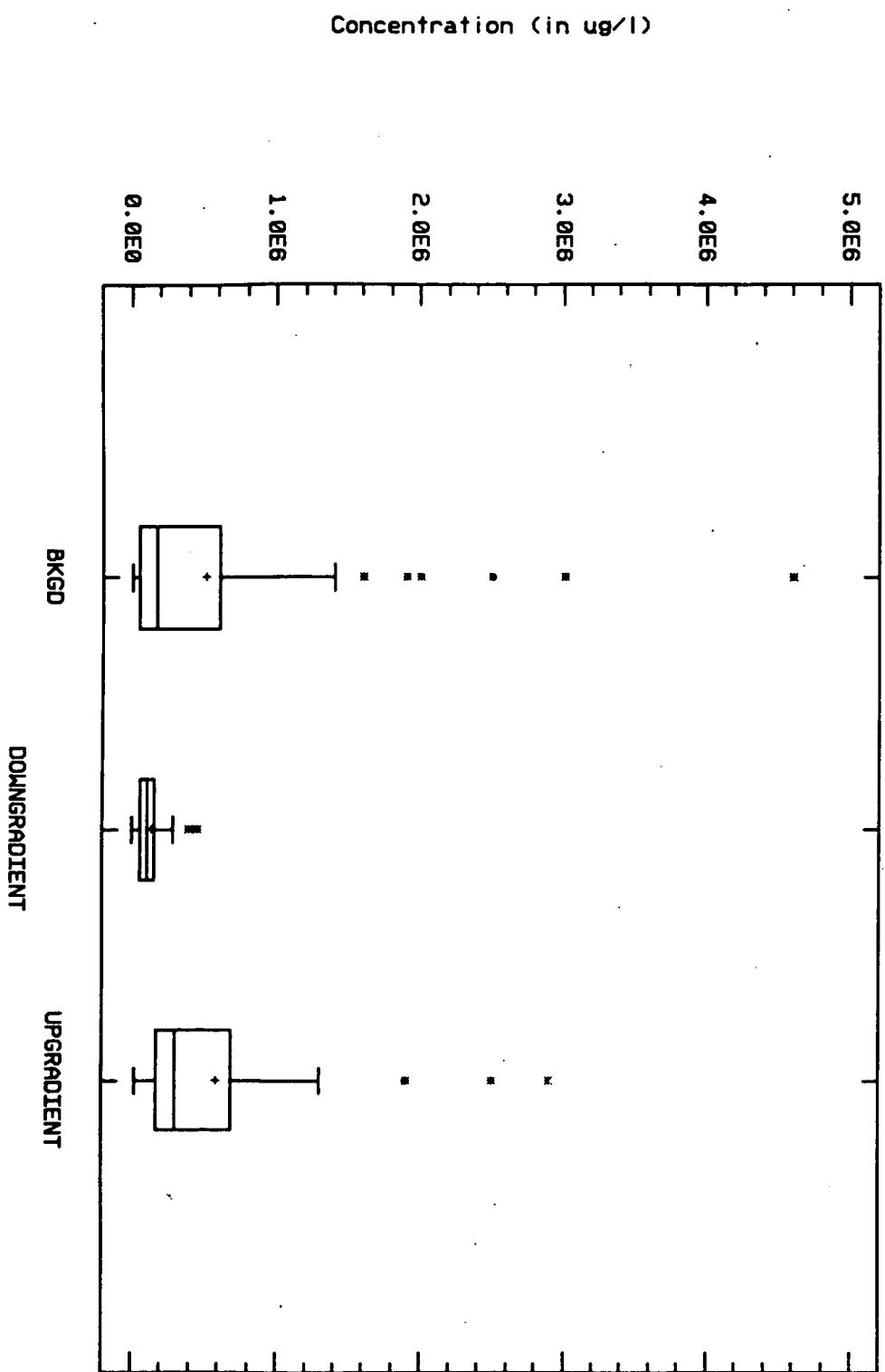
Background vs. 0U7 LHSU



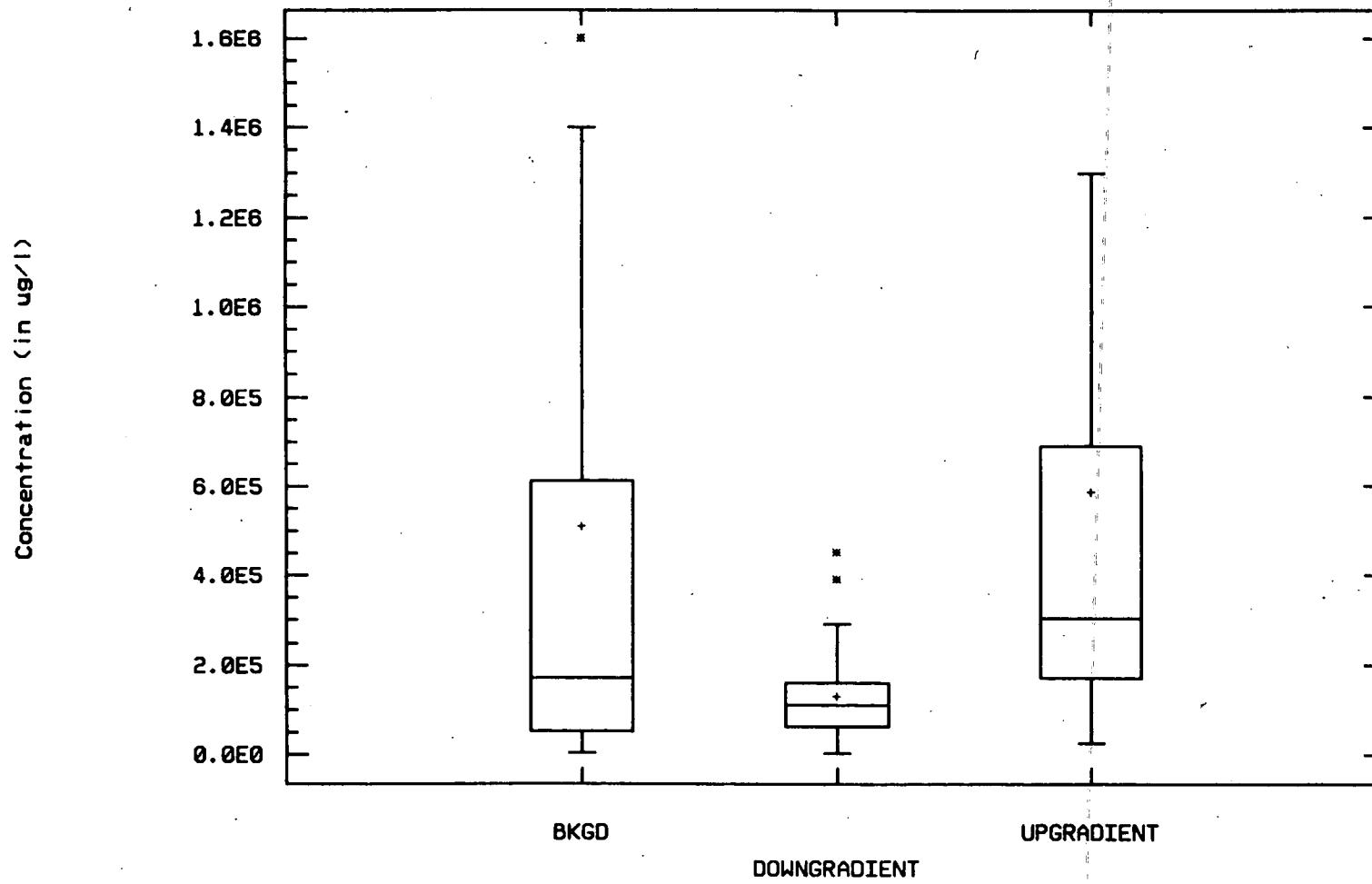
Concentration (in ug/l)



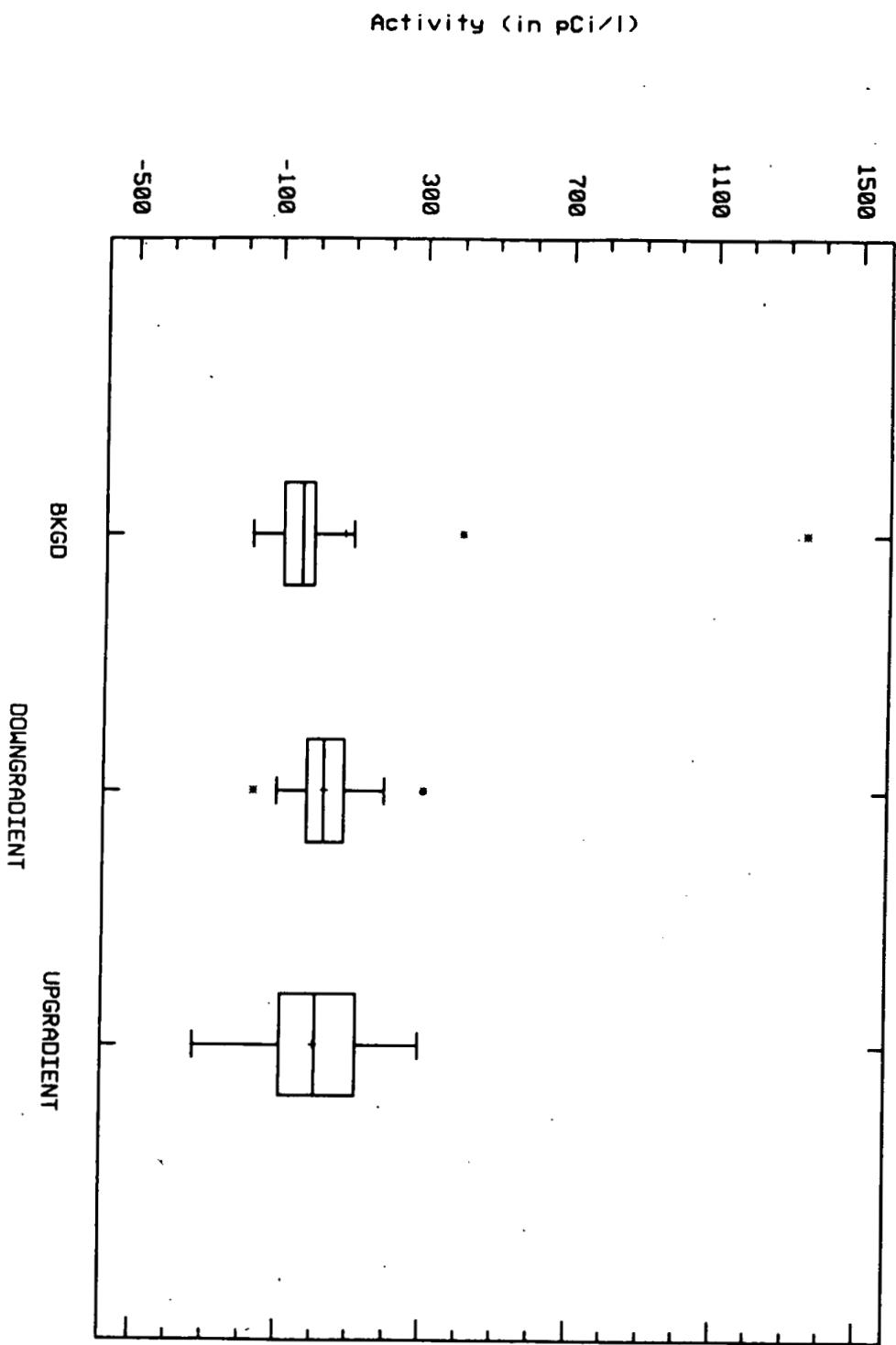
Total Suspended Solids: Groundwater
Background vs. OUT LHSU



Total Suspended Solids: Groundwater
Background vs. OU7 LHSU

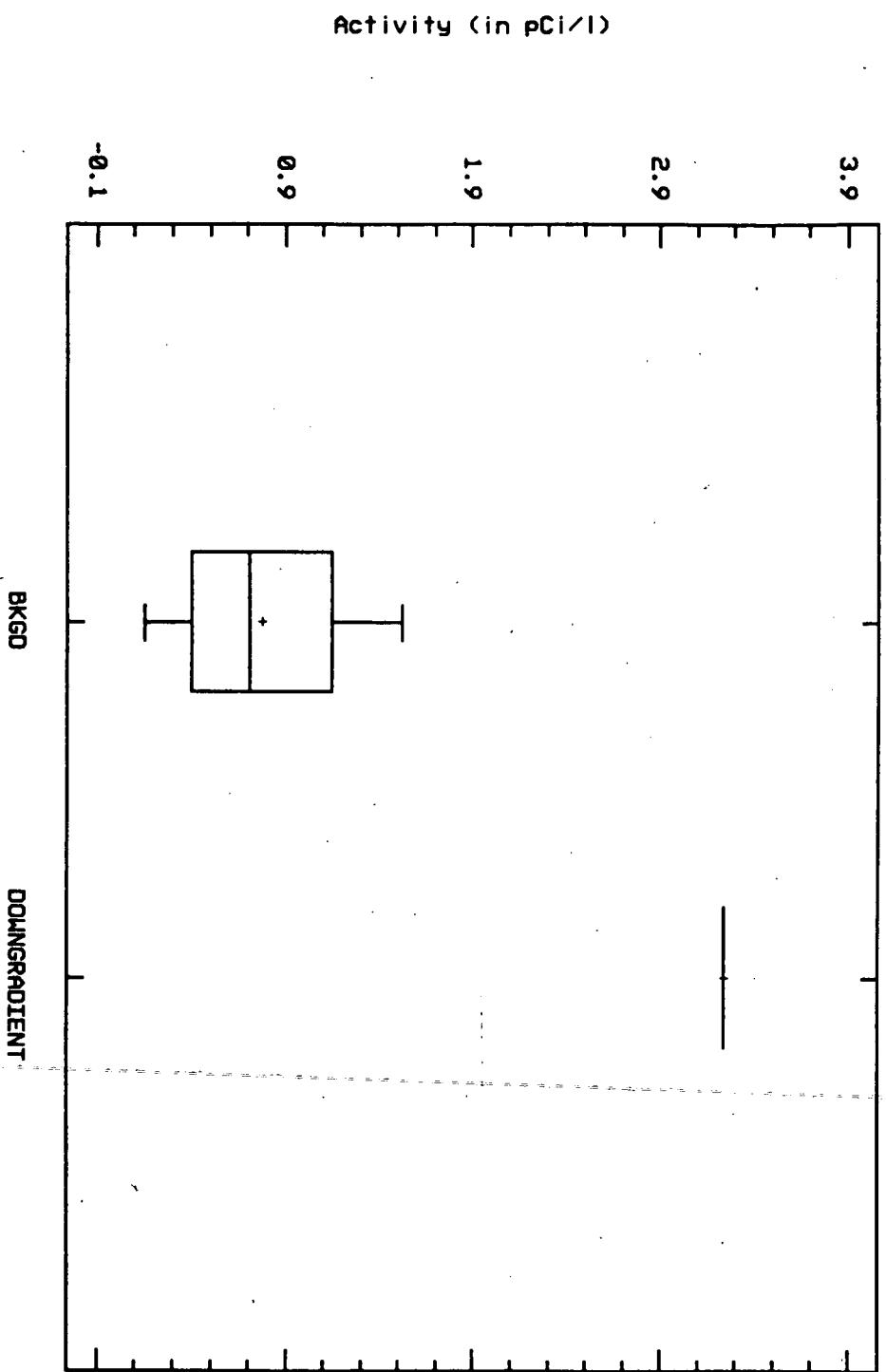


Tritium (Total): Groundwater
Background vs. 0U7 LHSU



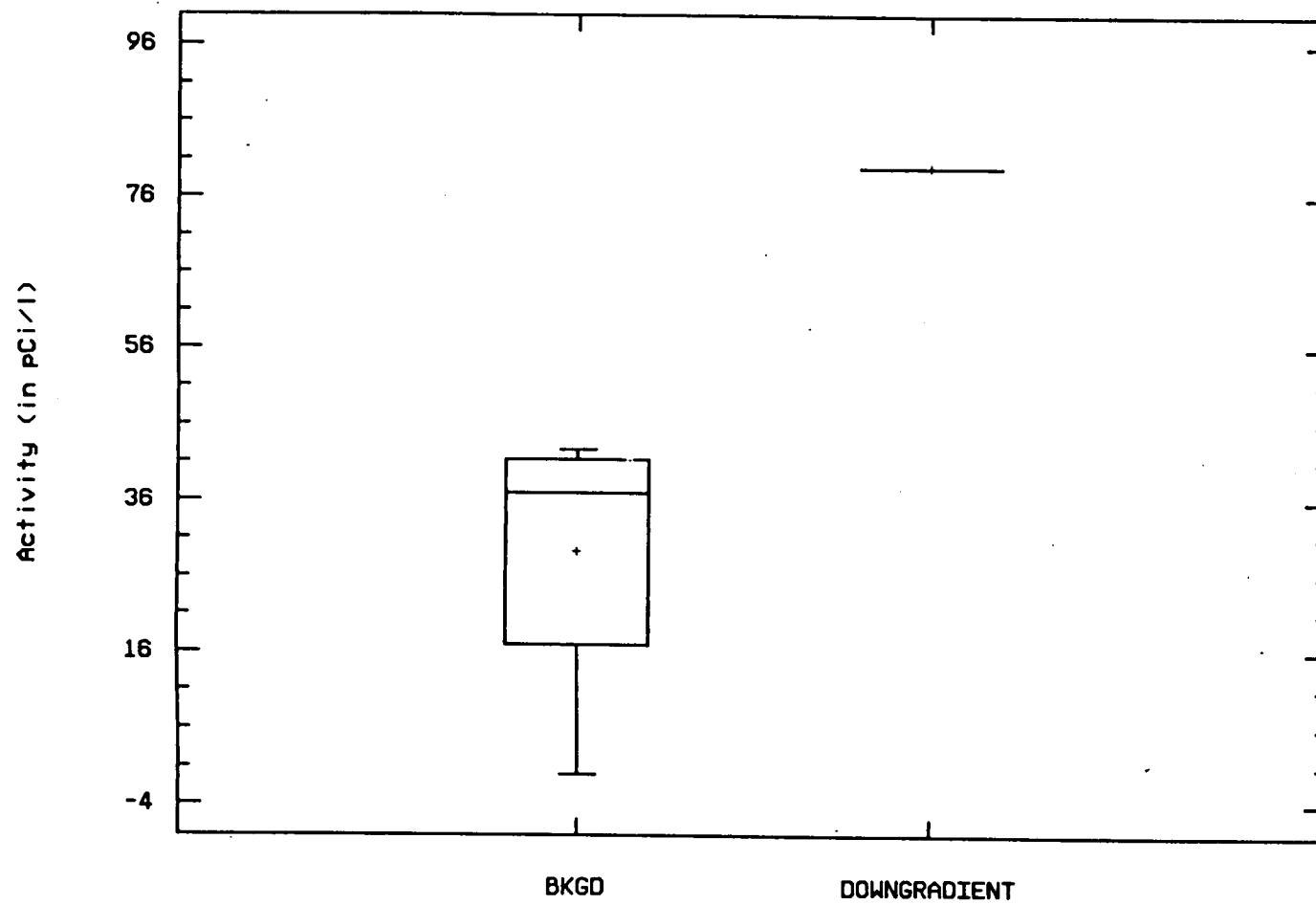
Uranium-233, -234 (Total): Groundwater

Background vs. OUT LHSU

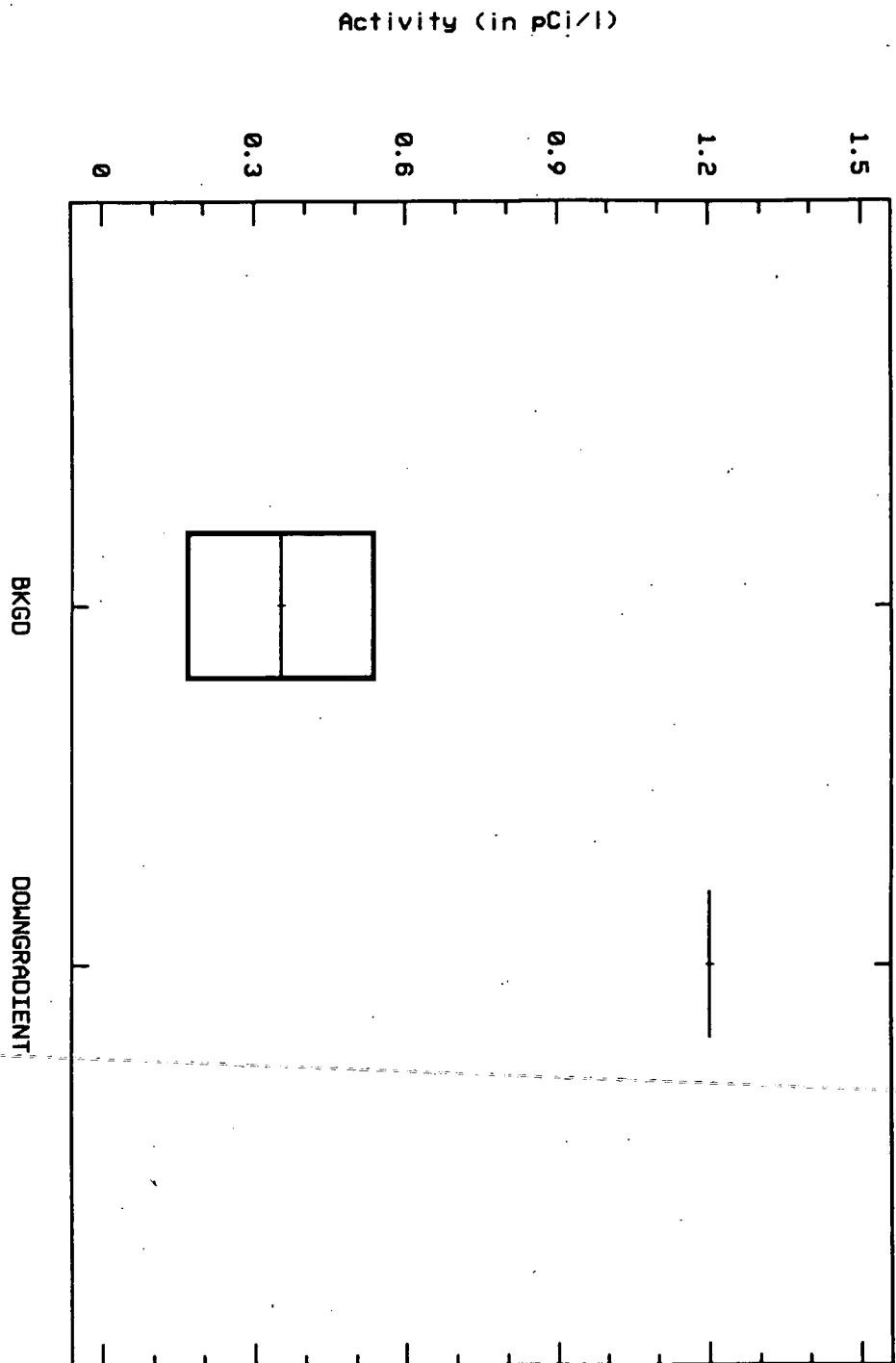


Uranium-235 (Total): Groundwater

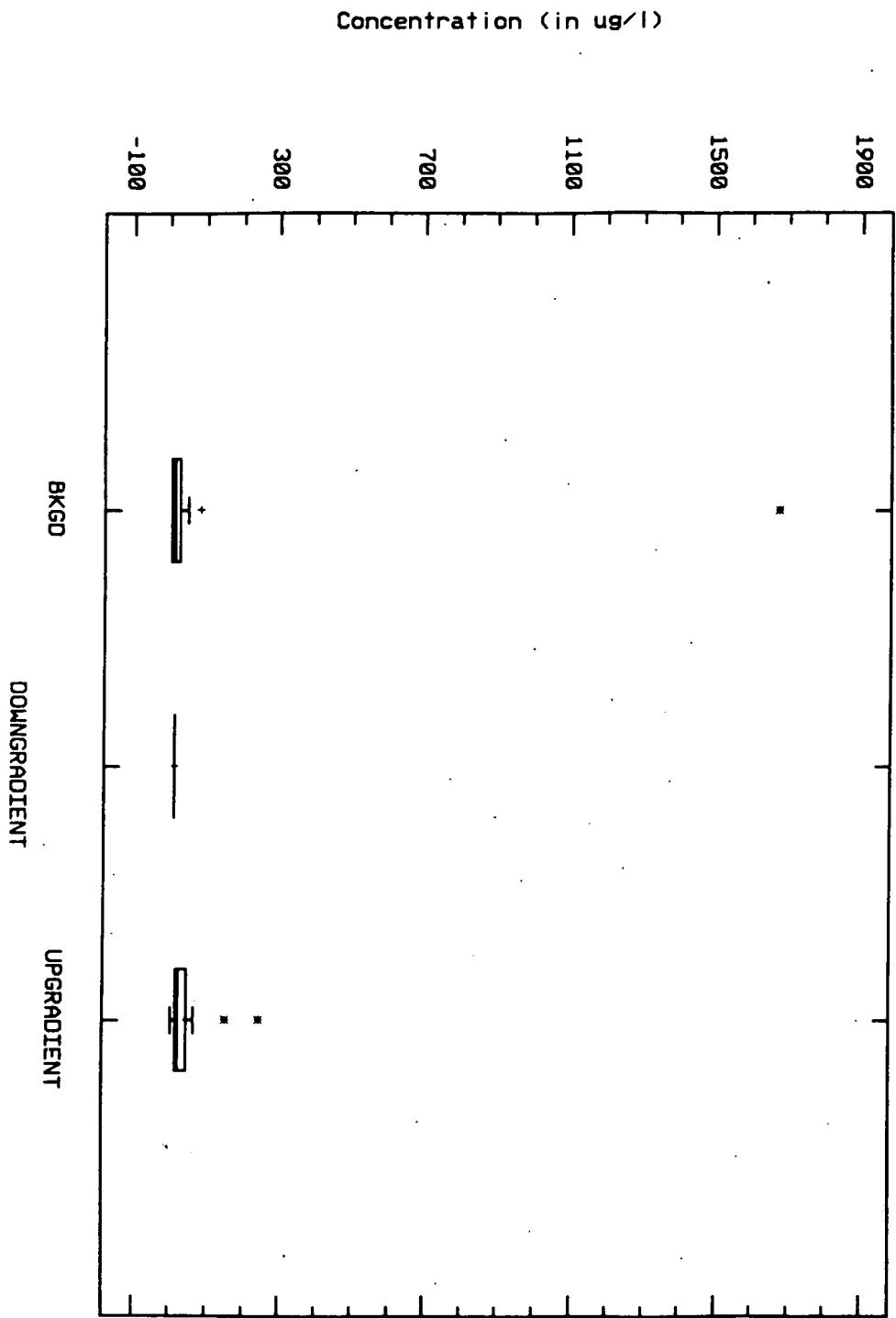
Background vs. OU7 LHSU



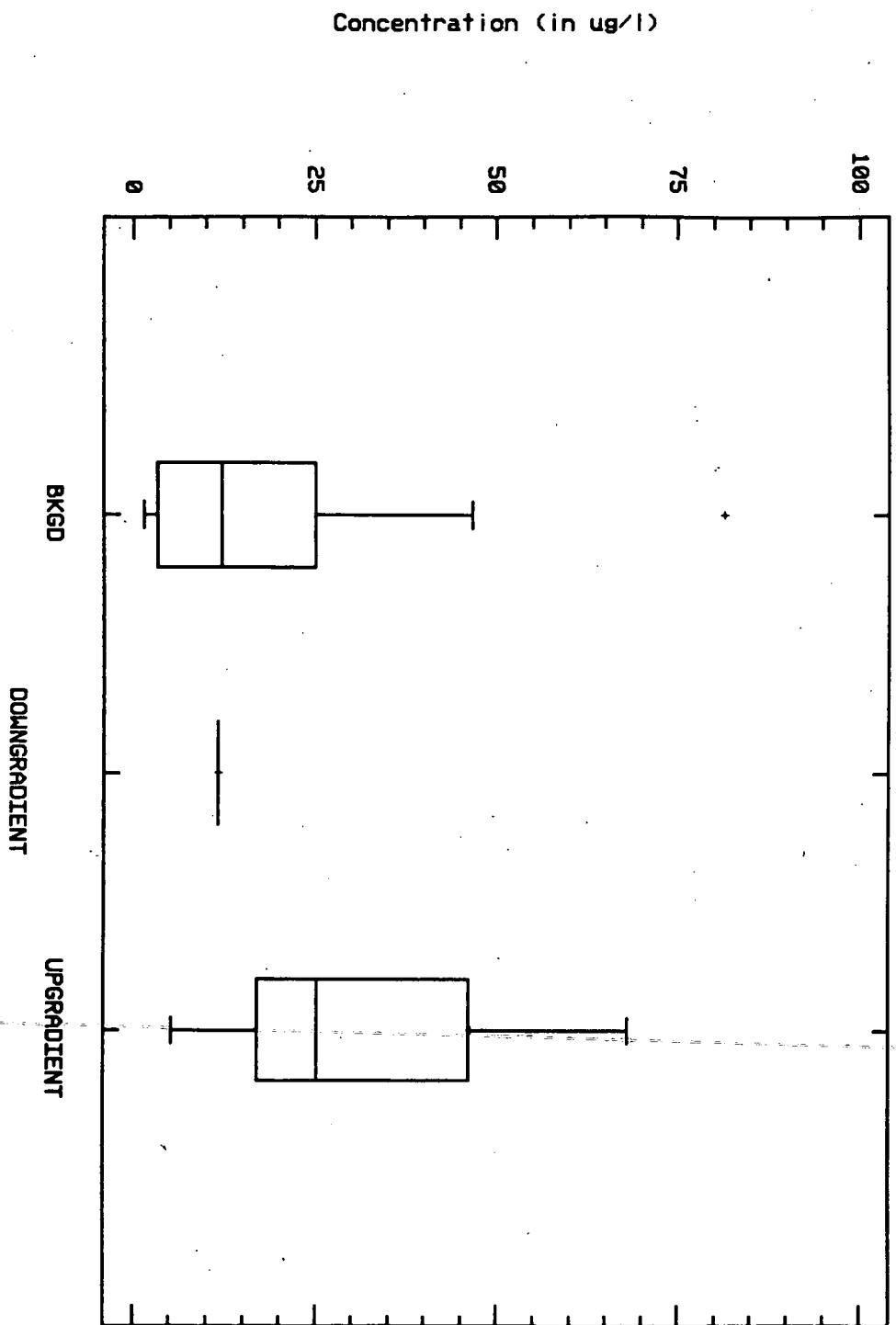
Uranium-238 (Total): Groundwater
Background vs. OUT LHSU



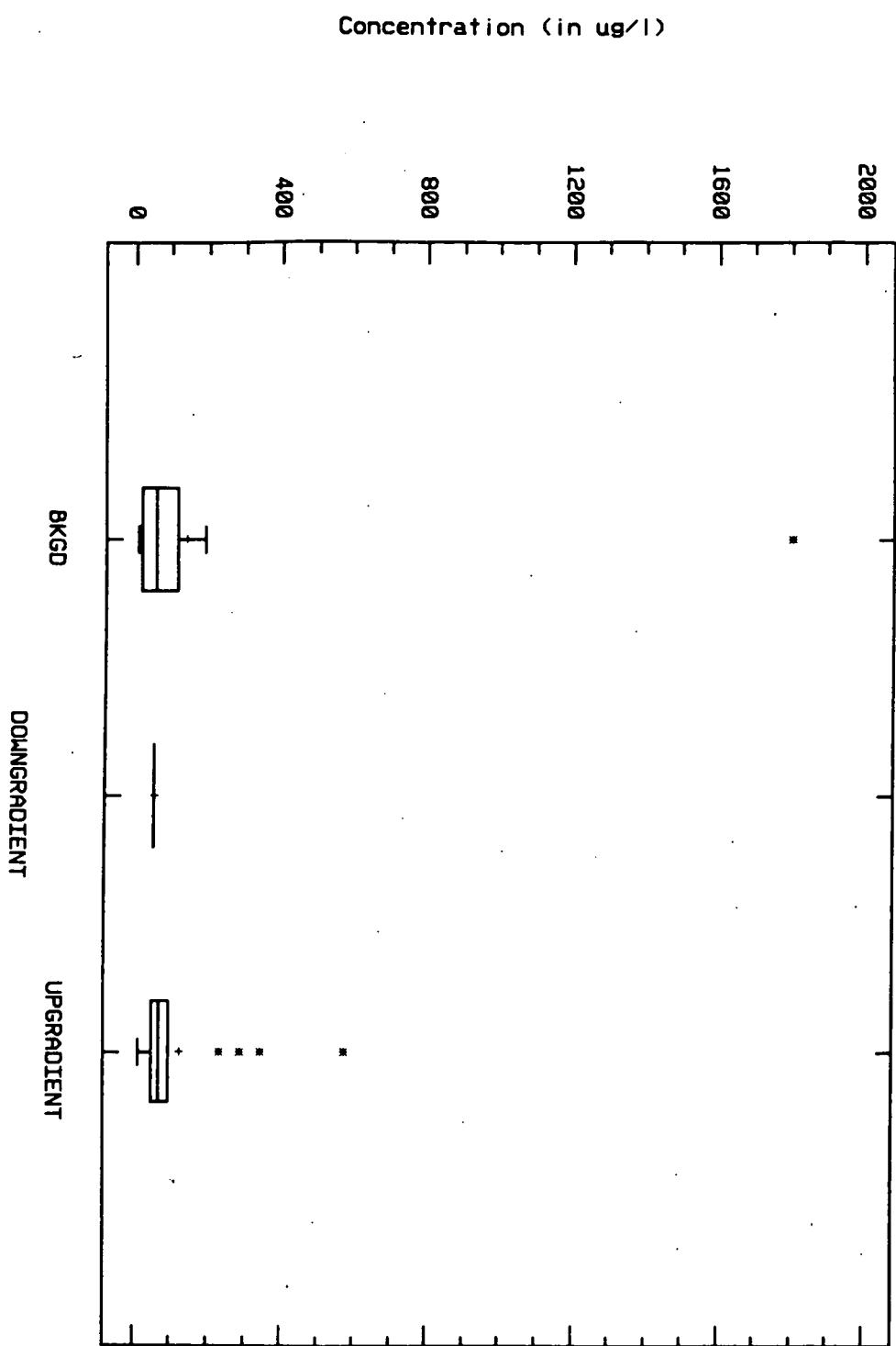
Vanadium (Total): Groundwater
Background vs. 017 LHSU



Vanadium (Total): Groundwater
Background vs. 0U7 LHSU



Zinc (Total): Groundwater
Background vs. OUT LHSU



Zinc (Total): Groundwater
Background vs. OU7 LHSU

